FAA NATIONAL OPERATIONS AND TRAINING MANUAL FOR THE <u>NON</u>-ACCEPTANCE AND <u>NON</u>-TRANSPORT OF DANGEROUS GOODS



January 1, 2005

DEPARTMENT OF TRANSPORTATION

FEDERAL AVIATION ADMINSTRATION

Record of Changes

FAA NATIONAL OPERATIONS AND TRAINING MANUAL FOR THE NON-ACCEPTANCE AND NON-TRANSPORT OF DANGEROUS GOODS IN AIR TRANSPORTATION

Change Number to Basic	Date	Change Number to Basic	Date
1	1		

FAA NATIONAL OPERATIONS AND TRAINING MANUAL FOR THE NON-ACCEPTANCE AND NON-TRANSPORT OF DANGEROUS GOODS

(Air Ca	arrier Name)
(Certific	cate Number)
(Physic	cal Address)
(City)	(State) (Zip Code)
(Telephone)	(Fax)
(Signature Block) Corporate Officer	(Signature Block) Responsible Dangerous Goods Officer
Date	Date ment of Intent:
This manual is intended to insure that no ecarrier will accept and/or cause to be trans	employee, agent, or contract employee of this air sported any hazardous material, as defined in 14 CFR y review this manual to ensure compliance with both
Recommend Acceptance/Approval Hazardous Materials Branch Manager	Accepted/Approved FSDO Principal Operations Inspector
Date	Date

FAA NATIONAL DANGEROUS GOODS OPERATIONS AND TRAINING MANUAL

This Dangerous Goods Operations and Training Manual complies with the requirements found in 14 CFR.

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FAA NATIONAL DANGEROUS GOODS OPERATIONS AND TRAINING MANUAL

GENERAL

Notwithstanding the contents of this manual, this air carrier is responsible for compliance with all provisions of the Hazardous Materials Regulations (HMR), Title 49, Code of Federal Regulations (49 CFR) and Title 14 Code of Federal Regulations (14 CFR).

The provisions of this manual shall be adhered to by all employees, agents, and contract employees of this air carrier, when they are involved in the acceptance, handling, and storage of freight or Company Material (COMAT) destined to be and/or having been transported in air commerce, and in handling checked baggage and/or passenger carry-on baggage. Further, these individuals must have satisfactorily completed this carrier's Hazardous Materials Recognition Training Program within the preceding 12 calendar months. The training requirements are found in Part Two of this manual.

In order to comply with 49 CFR, as well as the 14 CFR regulations, a current copy of this manual, and of the pertinent portions of the regulations, shall be available at each station of this air carrier where freight, COMAT, checked baggage and/or passenger carry-on baggage are accepted for transportation in air commerce.

This air carrier shall insure that hazardous material information warning signs (49 CFR 175.25 and 175.26) are prominently displayed at appropriate locations, advising shippers/passengers of the potential hazards and penalties associated with the offering and/or carriage of such materials aboard an aircraft if the shipper, and/or the operator, fails to comply with the regulations.

The terms <u>Dangerous Goods and Hazardous Materials</u> (DG/HM) are synonymous and may be used interchangeably. Dangerous goods and hazardous materials are sometimes also referred to as regulated materials, restricted articles, and dangerous materials.

This air carrier will insure that all DG/HM COMAT, will be offered to a different mode of transportation (e.g., ground) and/or an air carrier that is authorized to transport DG/HM. Any employee, agent, or contract employee of this air carrier who prepares and/or offers DG/HM COMAT for shipment via any mode must be fully trained as a DG/HM shipper.

1/1/2005

PART ONE

DANGEROUS GOODS OPERATIONS

I. RESPONSIBILITIES

The general transportation requirements of 49 CFR state that shippers of DG/HM must properly declare any such material at the time it is offered for transportation to the carrier. Air carrier employees, agents, and contract employees may rely on the certification and information provided by the shipper to determine if the shipment is authorized for air transportation. Therefore, it is acceptable practice to assume that a DG/HM package may be recognized by its conspicuous markings and label(s), which are required to be displayed on the outside of the package, and by the shipping document which must be a part of the offering and must accompany the shipment during transportation.

This air carrier shall review documents tendered with the shipment for any indication that the item(s) is DG/HM. All employees, agents, and contract employees of this carrier responsible for the acceptance of cargo or baggage shall be provided a trigger list of indicators of undeclared DG/HM (See Appendix A, Hidden Shipment Indicators) to assist them in their review.

Nonetheless, it must be understood that some shippers may be unaware of the requirements for offering and transporting DG/HM. Therefore, air carrier personnel accepting air cargo, packages, and passenger baggage must be especially vigilant in screening all such items, and when appropriate, question persons offering cargo, packages, or baggage as to the contents and thereby prevent the inadvertent acceptance and transportation of such unauthorized materials

Any package that displays a DG/HM marking or label, as shown in the latest DOT labeling chart (**See Appendix B, DOT Chart**), or otherwise is known or suspected of containing DG/HM, will not be accepted for air transportation or loaded aboard an aircraft.

II. COMPANY MATERIALS (COMAT)

COMAT is an industry term developed and used by air carriers and is generally used to describe a wide array of company materials including replacement items for installed equipment and consumable materials. (See Appendix C, Hazardous Materials Onboard Aircraft)

DG/HM COMAT will not be transported on this air carrier. The ONLY exception for this air carrier is:

A tire assembly with a serviceable tire is not subject to the provisions of this subchapter provided the tire is not inflated to a gauge pressure exceeding the maximum rated pressure for that tire (See 49 CFR 175.10(a)(2)(iii)).

This air carrier shall carefully scrutinize all COMAT received from Repair Stations and Parts Suppliers to determine if the material is DG/HM before introducing it into the transportation system.

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Shipments of DG/HM COMAT that are offered for transportation by this air carrier to other modes or air carriers must be in full compliance with all provisions of the Hazardous Materials Regulations. Employees, agents, and contract employees who prepare and/or offer DG/HM shipments for transportation must receive additional function-specific training to satisfy all of the requirements for shippers under 49 CFR 172.700.

III. PRE-BOARD INSPECTION

No employee, agent, or contract employee shall load any cargo or baggage containing indicators of DG/HM aboard an aircraft, onto an aircraft pallet, or into a Unit Load Device (ULD) unless it can be verified that the contents are not DG/HM.

IV. DG/HM EXCEPTIONS

Certain materials which are normally regulated as dangerous goods are excepted from the HMR. They are set forth in **Appendix D, DG/HM Exceptions** of this manual and 49 CFR 175.10.

V. ACCEPTANCE OF WHEELCHAIRS/MOBILITY AIDS

This air carrier will accept battery-powered wheelchairs/mobility aids as baggage. Wheelchairs/mobility aids will be transported with the battery attached, except when otherwise noted. In no case, may a battery be transported if it exhibits evidence of previous leakage or damage.

Wheelchair batteries are either "spillable" or "non-spillable." A non-spillable battery will normally be labeled as such. In the absence of a label, a battery whose caps or cover cannot be removed is considered to be non-spillable; if the caps or cover can be removed, it is considered to be spillable.

- a) Wheelchairs/mobility aids with <u>non-spillable</u> batteries may be accepted for carriage with the battery attached when properly prepared (the battery is disconnected and terminals and ends of cables are insulated to prevent short circuits). Batteries manufactured after September 30, 1995, must be marked on the outside of the battery case, "NON-SPILLABLE" or "NON-SPILLABLE BATTERY." <u>If the wheelchair cannot be loaded/stowed in an upright position, it is advisable that the battery be removed and packaged in a suitable package.</u>
- b) Wheelchairs/mobility aids with **spillable** batteries may be accepted for carriage with the battery attached, if the wheelchair can be loaded/stowed/unloaded in an upright position and the battery is disconnected and terminals are insulated to prevent short circuits.

If this requirement cannot be met, the battery <u>must</u> be removed from the housing by qualified airline personnel only, and transported in strong, rigid packaging under the following conditions:

• The packaging must be leak-tight and impervious to battery fluid. An inner liner may be used to satisfy this requirement if there is absorbent material placed inside of the liner and the liner has a leakproof closure;

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- The battery must be protected against short circuits, secured upright in the packaging, and be packaged with enough compatible absorbent material to completely absorb liquid contents in the event or rupture of the battery; and
- The packaging must be labeled with a CORROSIVE label, marked to indicate proper orientation, and marked with the words, "Battery, wet, with wheelchair."
- The Pilot-In-Command must be advised either orally or in writing prior to departure as to the location of the spillable battery aboard the aircraft.

VI. NOTIFICATION OF DG/HM INCIDENTS, DISCREPANCIES AND REQUIRED REPORTS

A. Reporting of Incidents (See 49 CFR 171.15)

- 1) This Air Carrier will, as soon as practical but no later than 12 hours after the occurrence of any reportable incident, provide notice by telephone to the National Response Center (NRC) at 800-424-8802 (toll free) or 202-267-2675 or electronically at http://hazmat.dot.gov/spills.htm. Notice involving an infectious substance may be given to the Director, Centers for Disease Control and Prevention at 800-232-0124 (toll free) in place of the notice to the NRC. This includes incidents that occur during the course of transportation (including loading, unloading, or temporary storage) in which:
 - a) A person is killed; or
 - b) A person receives injuries requiring hospitalization; or
 - c) An evacuation of the general public occurs lasting one or more hours; or
 - d) One or more major transportation arteries or facilities are closed or shut down for one hour or more; or
 - e) The operational flight pattern or routine of an aircraft is altered; or
 - f) Fire, breakage, spillage, or suspected radioactive contamination occurs involving shipment of RAM; or
 - g) Fire, breakage, spillage, or suspected contamination occurs involving shipment of infectious substances (etiologic agents); or
 - h) A situation exists of such a nature (e.g., a continuing danger to life exists at the scene of the incident that, in the judgment of the carrier, it should be reported to the NRC even though it does not meet the criteria of paragraph 1)(a) thru (g) of this section.
- 2) Radioactive Materials (RAM) In addition to the notification to the NRC, this air carrier will also make a telephone notification to the shipper of the RAM involved in the incident.

3) Filing an Incident Report (See 49 CFR 171.16) This air carrier shall report in writing, on DOT Form F 5800.1 (01-2004), within 30 days of the date of discovery, each incident that occurs during the course of transportation (including loading, unloading, or storage, incidental thereto) in which any of the circumstances set forth in 49 CFR 171.15(b) occurs, there has been an unintentional release of hazardous materials from a package or quantity of hazardous waste has been discharged during transportation, or undeclared hazardous materials are found in cargo or baggage. Exception: Undeclared hazardous materials discovered in baggage during the airport screening process are not subject to Section VI.A of this manual (See 49 CFR 171.16(d)(3)). Such items in baggage must be reported as a discrepancy in accordance with Section VI.B of this manual. (See 49 CFR 175.31)

A copy of DOT Form F 5800.1 (01-2004) will be forwarded to:

a) Information Systems Manager, DHM-63
 Research and Special Programs Administration
 Department of Transportation
 Washington, DC 20590-0001

and,

b) The nearest FAA Security Office in the region of discovery.

Instructions for completing DOT Form F 5800.1 (01-2004) are included in Appendix E.

- B. Reporting of Discrepancies (See 49 CFR 175.31)
 - 1) In the event of a discrepancy relative to the shipment of hazardous material following its acceptance for transportation aboard an aircraft, this air carrier shall, as soon as practicable, notify the nearest FAA Security Office, by telephone or electronically, and shall provide the following information:
 - a. Name and telephone number of the person reporting the discrepancy.
 - b. Name of the aircraft operator.
 - c. Specific location of the shipment concerned.
 - d. Name of the shipper.
 - e. Nature of discrepancy.
 - 2) Packages or baggage which are found to contain hazardous materials subsequent to their being offered and accepted as other than hazardous materials (undeclared) must be reported.
 - 3) Discrepancies involving hazardous materials which are improperly described, certified, labeled, marked, or packaged, in a manner not ascertainable when accepted under 175.30(a), must be reported.

EMERGENCY RESPONSE CONTACTS – RECOMMENDED LIST

<u>NOTE</u>: These contact numbers are not required at the time of program submission to the FAA and should be tailored to each station location.

<u>CONTACT</u> <u>PHONE NUMBER</u>

Local FAA Security Office

FAA Regional Operations Center (24-hour contact)

FAA Flight Standards District Office (FSDO) (Holding FAA Certificate)

Airport Police

Fire Department

Ambulance/Hospital

Center for Disease Control 1-800-232-0124

CHEMTREC 1-800-424-9300

State Department of Emergency Services

Disposal of Hazardous Materials

National Response Center (NRC) 1-800-424-8802

For Radioactive Materials:

Department of Energy (DOE) 202-586-8100

Nuclear Regulatory Commission 301-816-5100

State Radiation Control

NOTE: The North American Emergency Response Guidebook is a valuable resource when handling DG/HM incidents.

PART TWO

DANGEROUS GOODS TRAINING

I. REQUIREMENTS

Each employee, agent, and contract employee of this air carrier who performs any assigned duties or responsibilities for acceptance, handling, storage, and transportation of cargo, baggage, and COMAT shall be familiar with the company policy regarding the non-acceptance of DG/HM, the requirement for training, their responsibilities regarding the recognition of DG/HM, local emergency procedures, and the requirement for official notification of any incident or accident involving a DG/HM.

This air carrier shall not use any individual to perform the above-stated duties unless the individual has satisfactorily completed an initial course of study and an oral or written test regarding dangerous goods. All incorrect answers shall be reviewed with the trainee until proficiency is achieved.

In addition, within the preceding 12 calendar months, the individual must have received either initial training or annual recurrent training and satisfactorily completed an oral or written test. All incorrect answers shall be reviewed with the trainee until proficiency is achieved.

This air carrier shall maintain a record of the satisfactory completion of the initial and recurrent training for each individual. These records will be available at the location where the personnel perform such duties, and will be maintained for as long as the employee is performing these duties and for 90 days thereafter.

II. TRAINING CURRICULUM

The list below will be covered during the initial and recurrent training of each employee, agent, and contract employee of this air carrier. The material will be covered in such scope and depth as to provide each individual with sufficient knowledge of applicable regulations and procedures to safely accomplish their specific duties. This training will be considered to comply with all requirements for the acceptance, handling, and transportation of DG/HM as specified in 49 CFR. This air carrier will ensure that all materials and regulations used in its training curriculum are current and valid at the time of the training.

Module 1 - DG/HM General Recognition Training

- A. Company Policy and Training Requirements
- B. Applicable Regulatory Materials
- C. Hazard Class Definitions and Examples ~ 49 CFR 171.8
- D. Enforcement
- E. Hidden Shipment Indicators ~ Appendix A

- F. Suspicious Cargo and Baggage Awareness
- G. Communication Components of Dangerous Goods ~
 - Shipping Papers ~ 49 CFR Part 172 Subpart C
 - Marking ~ 49 CFR Part 172 Subpart D
 - Labeling ~ 49 CFR Part 172 Subpart E

H. DG/HM COMAT

- Identification and Recognition
- Hazardous Materials Onboard Aircraft ~ Appendix C
- Replacement Components
- Consumable Materials
- Specific DG COMAT Exception ~ 49 CFR 175.10(a)(2)(iii)
- Facility Storage, Safe Movement, and Handling Requirements ~ 49 CFR 175.78
 - Specific Hazards and Precautionary Measures
- Proper Disposal Procedures for DG COMAT
 - Environmental precautions
 - Transportation precautions
- I. Reporting Incidents and Discrepancies \sim 49 CFR 171.15, 171.16, 175.31, and Appendix E
- J. Exceptions for DG/HM ~ 49 CFR 175.10

Module 2 – Testing ~ 49 CFR 172.702(d)

NOTE: The recommended length of training time is four (4) hours for Initial Training, and two (2) hours for Recurrent Training.

APPENDIX A

HIDDEN SHIPMENT INDICATORS

Cargo and baggage offered to an air carrier under a general description may have hazards that are not apparent. The Hazardous Materials Table in 49 CFR Part 172 is not complete and shippers and passengers may not be aware of this. Some of these consignments have caused incidents that could have seriously endangered the safety of the aircraft and/or its passengers.

Air Carrier personnel should be alert to these possible hazards. Items found containing a hazardous material need to be shipped in accordance with the 49 CFR/ICAO Technical Instructions.

NAME	REMARKS
Aircraft Parts/COMAT	May indicate the presence of chemical oxygen generators, flammable liquids/solids, corrosives, compressed gases, radioactive materials in aircraft parts and accessories, or general company materials.
Automobile Parts (car, motor, motorcycle)	May contain cellulose paints, wet batteries, shocks/struts with nitrogen, air bag inflators/air bag modules, etc.
Breathing Apparatus/SCUBA	May indicate compressed air or oxygen cylinders
Bull (or other animal) Semen	May involve use of refrigerant (e.g., Liquid Nitrogen)
Camping Equipment	May contain flammable liquids, gas or solids
Chemicals	Often found to be hazardous
Cryogenic (Liquid)	Indicates low temperature, low pressure, or non- pressurized gas such as Argon, Helium, Neon, and Nitrogen
Cylinders	May indicate compressed gas
Dental Apparatus	May contain hazardous chemicals such as resins or solvents
Electrical Equipment	May contain magnetized materials or mercury in switch gear and electron tubes
Electrically powered	May contain wet batteries apparatus (wheelchairs, lawn mowers, golf carts, etc.)
Frozen Fruit, vegetables	May be packed in Dry Ice (Solid Carbon Dioxide)
Household Goods	May contain hazardous materials such as paint, aerosols, bleaching powder, etc.
Instruments	May conceal barometers, manometers, mercury switches, rectifier tubes, thermometers containing mercury
Laboratory/Testing	May contain various hazardous chemicals
Machinery Parts	May include hazardous chemicals (adhesives, paints, sealants, solvents, etc.)
Medical Supplies/Equipment (Test Kits)	May contain various hazardous chemicals
Pharmaceuticals	May contain various hazardous chemicals

Photo Supplies	May contain various hazardous chemicals
Refrigerators	May contain restricted gases or liquids
Repair Kits (or Spares or Spare Parts)	May contain various hazardous materials (adhesives,
	solvents, cellulose paints, organic peroxides, etc.)
Samples for Testing	May contain various hazardous materials (including
	infectious substances)
Swimming Pool Supplies	May contain acid, chlorine
Switches in Electrical Equipment or	May contain mercury
Instruments	
Tear Gas Dispensers	Contains irritating material or pepper gas which is
	forbidden on passenger aircraft
Toys	May be made of celluloid or other flammable
	material
Tool Boxes	May contain flammable liquids, gases, adhesives,
	cleaners, corrosives, oxidizers, etc.
Vaccines	May be packed in Dry Ice (Solid Carbon Dioxide)

Note 1: Articles which do not fall within the hazardous materials definitions of 49 CFR and which, in the event of leakage, may cause a serious cleanup problems or corrosion to aluminum on a long term basis must be checked by the shipper to at least ensure that the packaging is adequate to prevent leakage during transportation. These may include brine, powdered or liquid dyes, pickled foodstuffs, etc.

Note 2: Magnetized material, as defined in 49 CFR, with a gauss reading of more than 0.00525 is forbidden for air transportation and a package with a reading of 0.00525 or less is not regulated. The ICAO and IATA Regulations regulate magnetized material with a reading between 0.002 gauss and 0.00525 gauss, thus requiring a magnetized material label.

APPENDIX B

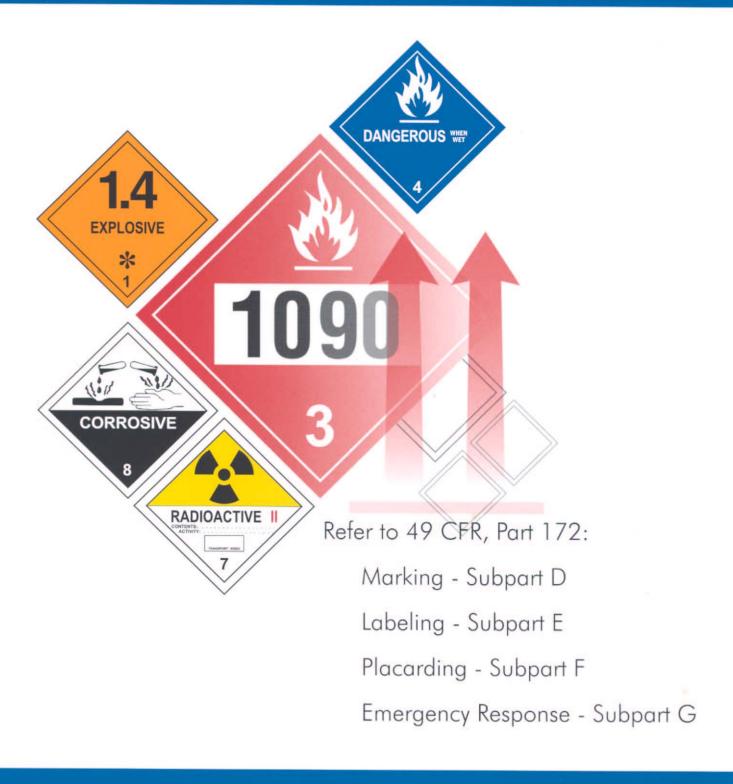
<u>DOT CHART</u> <u>Hazardous Materials Marking,</u> <u>Labeling & Placarding Guide</u>

SEE ATTACHED



DOT CHART 12

Hazardous Materials Marking, Labeling & Placarding Guide



Hazardous Materials Warning Labels

Actual label size: 100 mm (3.9 inches) on all sides



CLASS 2 Gases: Divisions 2.1, 2.2, 2.3



CLASS 3 Flammable Liquid

CLASS 4 Flammable Solid, Spontaneously Combustible, and **Dangerous When Wet:** Divisions 4.1, 4.2, 4.3

CLASS 5 Oxidizer, Organic Peroxide: Divisions 5.1 and 5.2







Include compatibility group letter

** Include division number and compatibility group letter.

§172.415, §172.416, §172.417, §172.405(b)

RADIOACTIVE

\$172,419

§172.420, §172.422, §172.423

§172.426, §172.427

CLASS 6 Poison (Toxic), Poison Inhalation Hazard, Infectious Substance: Divisions 6.1 and 6.2



Infectious Substance Label not required on an outer packaging, if the OSHA Biohazard Marking (29 CFR 1910.103(g)) is used. The CDC Etiologic Agent Label must be used as prescribed in 42 CFR 72.3 and 72.6.

§172.405(c), §172.429, §172.430, §172.432

CLASS 7 Radioactive

RADIOACTIVE

RADIOACTIVE

CLASS 8 Corrosive CLASS 9 Miscellaneous Subsidiary Risk

CORROSIVE



Label



Cargo Aircraft Only

For Aircraft

Only



Empty Label

EMPTY

§172.436, §172.438, §172.440, §172.450

HAZARDOUS MATERIALS MARKINGS

§172.446

\$172,411

§172.448

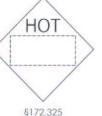
INNER PACKAGES COMPLY WITH PRESCRIBED **SPECIFICATIONS**

§173.25(a)(4)



§172.322





§172.332(a)



§172.442

INHALATION HAZARD

ORM-D

CONSUMER COMMODIT ORM-D-AIR

§172.313(a)

§172.316(a)

§172.316(a)(1)

Hazardous Materials Warning Placards

Actual placard size: 273 mm (10.8 inches) on all sides



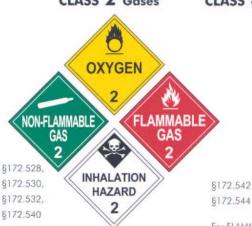
*Enter Division Number 1.1, 1.2, or 1.3, and compatibility group letter, when required; placard any quantity. For Divisions 1.4, 1.5, and 1.6, enter compatibility group letter, when required; placard 454 kg (1,001 lbs) or more.

CLASS 5 Oxidizer & Organic Peroxide



§172.550, §172.552

For OXIDIZER and ORGANIC PEROXIDE (other than TYPE B, temperature controlled), placard 454 kg (1,001 lbs) or more. For ORGANIC PEROXIDE (Division 5.2), Type B, temperature controlled, placard any quantity. CLASS 2 Gases



For NON-FLAMMABLE GAS, OXYGEN (compressed gas or refrigerated liquid), and FLAMMABLE GAS, placard 454 kg (1,001 lbs) or more gross weight. For POISON GAS (Division 2.3), placard any quantity.

CLASS 6 Poison (Toxic) and Poison Inhalation Hazard



POISON-INHALATION HAZARD (Division 6.1), Zone A or B inhalation hazard only, placard any quantity. For POISON, (PGI or PGII, other than Zone A or B inhalation hazard only) and KEEP AWAY FROM FOOD (PGIII), placard 454 kg (1,001 lbs) or more. For Transition 2003, see §171.14(b)(3).

CLASS 3 Flammable Liquid and Combustible Liquid



For FLAMMABLE, placard 454 kg (1,001 lbs) or more. GASOLINE may be used in place of FLAMMABLE placard displayed on a cargo tank or portable tank transporting gasoline by highway. Placard combustible liquid transported in bulk. See §172.504(f)(2) for use of FLAMMABLE placard in place of COMBUSTIBLE. FUEL OIL may be used in place of COMBUSTIBLE on a cargo or portable tank transporting fuel oil not classed as a flammable liquid by highway.

CLASS 4 Flammable Solid, Spontaneously Combustible, and **Dangerous When Wet**



For FLAMMABLE SOLID and SPONTANEOUSLY COMBUSTIBLE, placard 454 kg (1,001 lbs) or more. For DANGEROUS WHEN WET (Division 4.3), placard any quantity.

CLASS 7 Radioactive



Placard any quantity - packages bearing RADIOACTIVE YELLOW-III labels only. Certain low specific activity radioactive materials in "exclusive use" will not bear the label, but the radioactive placard is required for exclusive use shipments of low specific activity material and surface contaminated objects transported in accordance with §173.427(b)(3) or (c).



Dangerous



§172.558

Placard 454 kg (1,001 lbs) or more.



§172.560

Not required for domestic transportation. A bulk packaging containing a Class 9 material must be marked with the appropriate ID number displayed on a Class 9 placard, an orange panel, or a white square-on-point display.



8172.521

A freight container, unit load device, transport vehicle, or rail car which contains non-bulk packagings with two or more categories of hazardous materials that require different placards specified in Table 2 may be placarded with DANGEROUS placards instead of the specific placards required for each of the materials in Table 2. However, when 1,000 kg (2,205 lbs) or more of one category of material is loaded at one loading facility, the placard specified in Table 2 must be applied.

8172.527

White square background required for placard for highway raute controlled quantity radioactive material and for rail shipment of certain explosives and poisons, and for flammable gas in a DOT 113 tank car (§172.507 and §172.510).

PLACARDS

Appropriate placard must be used



OR

\$172.332



1090





MUST BE DISPLAYED ON: (1) Tank Cars, Cargo Tanks, Portable Tanks, and other Bulk Packagings; (2) Vehicles or containers containing 4000 kg (8,820 lbs) in non-bulk packages of only a single hazardous material having the same proper shipping name and identification number; and (3) 1000 kg (2,205 lbs) of materials poisonous by inhalation in Hazard Zone A or B. See §172.301(a)(3) and §172.313(c).

Response begins with identification!

General Guidelines on Use of Warning Labels and Placards

LABELS

See 49 CFR, Part 172, Subpart E for complete labeling regulations.

- The Hazardous Materials Table [§172.101, Col. 6] identifies the proper label(s) for the hazardous material listed.
- Any person who offers a hazardous material for transportation MUST label the package, if required [§172.400(a)].
- Labels may be affixed to packages when not required by regulations, provided each label represents a hazard of the material contained in the package [§172.401].
- The appropriate hazard class or division number must be displayed in the lower corner of a primary and subsidiary hazard label [§172.402(b)].
- For classes 1,2,3,4,5,6, and 8, text indicating a hazard (e.g., "CORROSIVE") IS NOT required on a label. The label must otherwise conform to Subpart E of Part 172 [§172.405].
- Labels must be printed on or affixed to the surface of the package near the proper shipping name marking [§172.406(a)].
- When primary and subsidiary labels are required, they must be displayed next to each other [§172.406(c)].
- For a package containing a Division 6.1, Packing Group III material, the POISON label specified in §172.430 may be modified to display the text PG III instead of POISON or TOXIC. Also see [§172.313(d)].
- The class number must be displayed on a subsidiary label. For Transition 2005, see [§172.402(b)].

PLACARDS

See 49 CFR, Part 172, Subpart F, for complete placarding regulations.

- Each person who offers for transportation or transports any hazardous material subject to the Hazardous Materials Regulations must comply with all applicable requirements of Subpart F [§172.500].
- Placards may be displayed for a hazardous material, even when not required, if the placarding otherwise conforms to the requirements of Subpart F of Part 172 [§172.502(c)].
- For other than Class 7 or the DANGEROUS placard, text indicating a hazard (e.g., "FLAMMABLE") is not required. Text may be omitted from the OXYGEN placard only if the specific ID number is displayed on the placard [§172.519(b)(3)].
- For a placard corresponding to the primary or subsidiary hazard class of a material, the hazard class or division number must be displayed in the lower corner of the placard [§172.519(b)(4)].
- Any transport vehicle, freight container, or rail car containing any quantity of material listed in Table 1 must be placarded [§172.504].
- When the gross weight of all hazardous materials in non-bulk packages covered in Table 2 is less than 454 kg (1,001 lbs), no placard is required on a transport vehicle or freight container [§172.504(c)].
- Notes: See [§172.504(f)(10)] for placarding Division 6.1, PG-III materials.
- Placarded loads require registration with USDOT. See [§107.601] for registration regulations.

Inhalation Hazard Materials





INHALATION HAZARD

§172.540

§172.555

§172.313

Materials which meet the inhalation toxicity criteria have additional "communication standards" prescribed by the HMR. The words "Poison-Inhalation Hazard" must be entered on the shipping paper, as required [§172.203(m)(2)]. Packagings must be marked "Inhalation Hazard" or, alternatively, when the words "Inhalation Hazard" appear on the label or placard, the "Inhalation Hazard" marking is not required on the package. Transport vehicles, freight containers, portable tanks and unit load devices that contain a poisonous material subject to the "Poison-Inhalation Hazard" shipping description, must be placarded with a POISON INHALATION HAZARD or POISON GAS placard, as appropriate. This shall be in addition to any other placard required for that material [§172.504].

Placarding Tables

[§172.504(e)]

Table 1 (Placard any quantity)

Hazard class or division	Placard name
1.1	EXPLOSIVES 1.1
1.2	EXPLOSIVES 1.2
1.3	EXPLOSIVES 1.3
2.3	POISON GAS
4.3	DANGEROUS WHEN WET
5.2 (Organic peroxide, Type B, liquid or	
solid, temperature controlled)	ORGANIC PEROXIDE
6.1 (Inhalation Hazard, Zone A or B)	POISON INHALATION HAZARD
7 (Radioactive Yellow III label only)	RADIOACTIVE

Table 2 (Placard 1,001 lbs or more)

Placard name
EXPLOSIVES 1.4
EXPLOSIVES 1.5
EXPLOSIVES 1.6
FLAMMABLE GAS
NON-FLAMMABLE GAS
FLAMMABLE
COMBUSTIBLE
FLAMMABLE SOLID
SPONTANEOUSLY COMBUSTIBLE
OXIDIZER
ORGANIC PEROXIDE
POISON
(None)
CORROSIVE
CLASS 9 [§172.504(f)(9)]
(None)

For complete details, refer to one or more of the following:

- Code of Federal Regulations, Title 49, Transportation, Parts 100-185. [All modes]
- International Civil Aviation Organization (ICAO) Technical Instructions for Safe Transport of Dangerous Goods by Air. [Air]
- International Maritime Organization (IMO) Dangerous Goods Code. [Water]
- Transportation of Dangerous Goods Regulations of Transport Canada. [All Modes]



U.S. Department of Transportation

Research and Special Programs Administration Copies of this Chart may be obtained by contacting:

USDOT/RSPA/OHMIT/DHM-50 Washington, D.C. 20590

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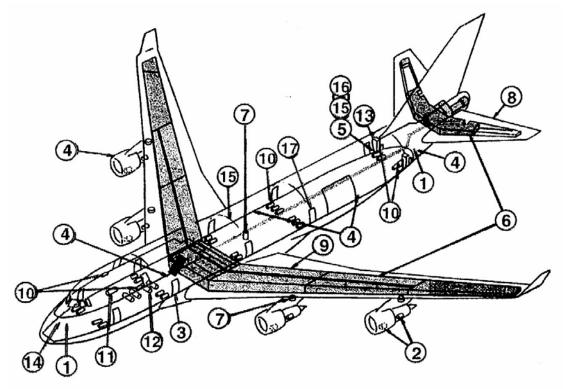
Phone: 202-366-2301

E-mail: training@rspa.dot.gov

Web site: www.rspa.dot.gov

APPENDIX C

Hazardous Materials Onboard Aircraft



- 1. Batteries, Aircraft (qty. 2)
- **2. Engine Oil** (as hazardous waste)
- **3. Escape Slides/Life Rafts** (all entry doors/rafts optional)
- **4. Fire Bottles** (APU, engines, lower cargo compartment, and lavatory waste containers)
- **5. Fire Extinguishers** (attendant stations, closets, galleys, etc.)
- 6. Fuel
- **7. Hydraulic Fluid, Reservoirs** (as hazardous waste)
- **8. Uranium** (depleted, counter-balance weights)

- 9. Ordnance Devices (off-wing escape)
- 10. Oxygen Bottles, Portable, Gaseous
- 11. Oxygen Bottles, Crew System, Gaseous
- 12. Oxygen Bottles, Passenger System, Gaseous (Standard)
- **13. Oxygen Generators** (optional: each PSU standard: each attendant station and lavatory)
- 14. Rain Repellant
- **15. Refrigerant** (located in each galley)
- 16. Smoke Hoods
- 17. Tritium Signs (aisle and emergency exit doors)

APPENDIX D

DG/HM EXCEPTIONS

The following are exceptions to 49 CFR, as stated in Section 175.10, Exceptions, and may be carried aboard company aircraft.

- *The exceptions identified in *bold italics* may not be utilized, as they require additional preparation, documentation and handling this air carrier is not authorized to conduct.
- a) This subchapter does not apply to:
- 1) Aviation fuel and oil in tanks that are in compliance with the installation provisions of 14 CFR, Chapter 1.
- 2) Hazardous materials required aboard an aircraft in accordance with the applicable airworthiness requirements and operating regulations. Unless otherwise approved by the Associate Administrator, items of replacement for such hazardous materials must be transported in accordance with this subchapter except that
 - (i) In place of the required packagings, packagings specially designed for the transport of aircraft spares and supplies may be used, provided such packagings provide at least an equivalent level of protection to those that would be required by this subchapter;
 - *Air carriers who do NOT have FAA approval to transport dangerous goods cannot take advantage of the provisions of this packaging exception.
 - (ii) Aircraft batteries are not subject to quantity limitations such as those provided in section 172.101 or 175.75(a) of this subchapter;
 - *Air carriers who do NOT have FAA approval to transport dangerous goods cannot take advantage of the provisions of this quantity limitation exception.

and,

- (iii) A tire assembly with a serviceable tire is not subject to the provisions of this subchapter provided the tire is not inflated to a gauge pressure exceeding the maximum rated pressure for that tire.
- 3) Hazardous Materials loaded and carried in hoppers or tanks of aircraft certified for use in aerial seeding, dusting, spraying, fertilizing, crop improvement, or pest control, to be dispensed during such an operation.

- 4) The following hazardous materials when carried by a passenger or crew member for personal use in conformance with the following conditions:
 - (i) Non-radioactive medicinal and toilet articles (including aerosols) may be carried in checked or carry-on baggage. Release devices on aerosols must be protected by a cap or other suitable means to prevent inadvertent release;
 - (ii) One self-defense spray (see 171.8 of this subchapter), not exceeding 118 ml (4 fluid ounces) by volume, that incorporates a positive means to prevent accidental discharge may be carried in checked baggage only;
 - (iii) Other aerosols in Division 2.2 with no subsidiary risk may be carried in checked baggage only. Release devices on aerosols must be protected by a cap or other suitable means to prevent inadvertent release;
 - (iv) The aggregate quantity of hazardous materials carried by the person may not exceed 2 kg (70 ounces) by mass or 2 liters (68 fluid ounces) by volume and the capacity of each container may not exceed 0.5 kg (18 ounces) by mass or 470 ml (16 fluid ounces) by volume.
 - (v) The provisions of this paragraph (a)(4) also apply to an aircraft operator when transporting passenger or crew member baggage to its intended destination, if the baggage has been separated from the passenger or crew member, including transfer to another carrier for transport to its intended destination.
- 5) Small-arms ammunition for personal use carried by a crewmember or passenger in his baggage (excluding carry-on baggage) if securely packed in fiber, wood, or metal boxes or other packagings specifically designed to carry small amounts of ammunition. This paragraph does not apply to persons traveling under the provisions of 49 CFR 1544.219.

6) [Reserved.]

- 7) Oxygen, or any hazardous material used for the generation of oxygen, for medical use by a passenger, which is furnished by the aircraft operator in accordance with 14 CFR Part 121.574 or Part 135.91. For the purposes of this paragraph, an aircraft operator that is not a certificate holder under 14 CFR Part 121 or Part 135, may apply this exception in conformance with 14 CFR Part 121.574 or Part 135.91 in the same manner as required for a certificate holder.
- 8) Human beings and animals with an implant medical device, such as a heart pacemaker, that contains Class 7 (radioactive material) or with radiopharmaceuticals that have been injected or ingested.
- 9) Smoke grenades, flares, or similar devices carried only for use during a sport parachute jumping activity.
- 10) Safety matches or a lighter intended for use by an individual when carried on one's person. However, lighters containing unabsorbed liquid fuel (other than liquefied gas), lighter fuel, and lighter refills are not permitted on one's person or in checked or carry-on baggage.
- 11) Smoke grenades, flares, and pyrotechnic devices affixed to aircraft carrying no person other than a required flight crew member during any flight conducted at and as a part of a scheduled air show or exhibition or aeronautical skill. The affixed installation accommodating the smoke

grenades, flares, or pyrotechnic devices on the aircraft must be approved by the FAA for its intended use.

- 12) Hazardous material which are loaded and carried on or in cargo aircraft only, and which are to be dispensed or expended during flight for weather control, environmental restoration or protection, forest preservation and protection, flood control, avalanche control purposes, or routine quality control testing of special fireworks manufactured for the Department of Defense, when the following requirements are met:
 - (i) Operations may not be conducted over densely populated areas, in a congested airway, or near any airport where air carrier passenger operations are conducted.
 - (ii) Each operator shall prepare and keep current a manual containing operational guidelines and handling procedures, for the use and guidance of flight, maintenance, and ground personnel concerned in the dispensing or expending of hazardous materials**. The manual must be approved by the FAA Civil Aviation Security Office responsible for the operator's overall security program or the FAA Civil Aviation Security Office in the region where the operator is located. The manual must be approved by the FAA Civil Aviation Security Office responsible for reviewing the operator's hazardous materials program or the FAA Civil Aviation Security Office in the region where the operator is located. Each operation must be conducted in accordance with the manual.
 - ** Information regarding the exception for aerial dispensing or expending of hazardous materials may be obtained from the nearest FAA Civil Aviation Security Office.
 - (iii) No person other than a required flight crewmember, FAA inspector, or person necessary for handling or dispensing the hazardous material may be carried on the aircraft.
 - (iv) The operator of the aircraft must have advance permission from the owner of any airport to be used for the dispensing or expending operation.
 - (v) When dynamite and blasting caps are carried for avalanche control flights, the explosives must be handled by, and at all times, be under the control of a qualified blaster. When required by State or local authority, the blaster must be licensed and the State or local authority must be identified in writing to the FAA Civil Aviation Security Office responsible for reviewing the operator's hazardous materials program or the FAA Civil Aviation Security Office in the region where the operator is located.
 - (vi) When special fireworks aerial illuminating flares, manufactured specifically for the DOD, are carried for in-flight routine quality control testing, the fireworks must be handled by, and at all times be under the control of a qualified person who has been trained in accordance with a program approved by the local FAA Civil Aviation Security Office. The aircraft must be specially modified to conduct the testing operation and must be specifically approved for such operations by the local FAA Civil Aviation Security Office before the flight.

- 13) Carbon dioxide, solid (dry ice) when:
 - (i) in quantities not exceeding 2.3 Kg (5.07 pounds) per package packed as prescribed by 49 CFR Section 173.217 of this subchapter and used as a refrigerant for the contents of the package. The package must be marked with the name of the contents being cooled, the net weight of the dry ice or an indication that the net weight is 2.3 (5.07 pounds) or less, and marked "Carbon Dioxide, Solid" or "Dry Ice";
 - (ii) Intended for use in food and beverage service aboard aircraft; or
 - (iii) In quantities not exceeding 2 kg (4.4 pounds) per passenger when used to pack perishables in carry-on baggage provided the package permits the release of carbon dioxide gas.
- 14) A transport incubator unit necessary to protect life or an organ preservation unit necessary to protect human organs provided:
 - (i) The compressed gas used to operate the unit is in an authorized DOT specification cylinder and is marked, labeled, filled, and maintained as prescribed by this subchapter;
 - (ii) Each battery used in the operation of the unit is of the non-spillable type;
 - (iii) The unit is so constructed so that valves, fittings, and gauges are protected from damage;
 - (iv) The Pilot-In-Command is advised when the unit is on board and when it is intended for use;
 - (v) The unit is accompanied by a person qualified to operate it;
 - (vi) The unit is secured in the aircraft in a manner so as not to restrict access to or use of any required emergency or regular exit or of the aisle in the passenger compartment;
 - (vii) Smoking within 3 meters (10 feet) of the unit is prohibited.
- 15) Alcoholic beverages, perfumes, colognes, and liquefied gas lighters that have been examined by the Bureau of Explosives (B of E) and approved by the Associate Administrator, carried aboard a passenger-carrying aircraft by the operator for use or sale on the aircraft.
- 16) Perfumes and colognes purchased through duty-free sales, carried by passengers or crew in carry-on baggage.

- 17) Alcoholic beverages containing:
 - (i) Not more than 24% alcohol by volume; or
 - (ii) More than 24% and not more than 70% alcohol by volume when in retail packagings not exceeding 5 liters (1.3) gallons) carried by a crew member or passenger in checked or carry-on baggage, with a total net quantity per person of 5 liters (1.3 gallons) for such beverages.
- 18) Compressed gas cylinders of Division 2.2 worn by passengers for the operation of mechanical limbs and spare cylinders of a similar size for the same purpose in sufficient quantities to ensure an adequate supply for the duration of the journey.
- 19) A wheelchair or other battery-powered mobility aid equipped with a non-spillable battery, when carried as checked baggage, provided that:
 - (i) The battery meets the provisions of 173.159(d) for non-spillable batteries;
 - (ii) Visual inspection, including where necessary, removal of the battery, reveals no obvious defects (however, removal of the battery from the housing should be performed by qualified airline personnel only.).
 - (iii) The battery is disconnected and terminals are insulated to prevent short circuits; and
 - (iv) The battery is securely attached to the wheelchair or mobility aid, is removed and placed in a strong, rigid packaging that is marked "NON-SPILLABLE BATTERY" (unless fully enclosed in a rigid housing that is properly marked), or is handled in accordance with (a)(20)(iv) of this section.
- 20) A wheelchair or other battery-powered mobility aid equipped with a spillable battery, when carried as checked baggage, provided that:
 - (i) Visual inspection including, where necessary, removal of the battery, reveals no obvious defects (However, removal of the battery from the housing should be performed by qualified airline personnel only.);
 - (ii) The battery is disconnected and terminals are insulated to prevent short circuits.
 - (iii) The Pilot-In-Command is advised, either orally or in writing, prior to departure, as to the location of the battery aboard the aircraft; and
 - (iv) The wheelchair or mobility aid is loaded, stowed, secured, and unloaded in an upright position, or the battery is removed, the wheelchair or mobility aid is carried as checked baggage without further restriction and the removed battery is carried in a strong, rigid, packaging under the following conditions:
 - (A) The packaging must be leak-tight and impervious to battery fluid. An inner liner may be used to satisfy this requirement if there is absorbent material placed inside of the liner and the liner has a leak-proof closure;

APPENDIX D (cont'd)

- (B) The battery must be protected against short circuits, secured upright in the packaging, and be packaged with enough compatible absorbent material to completely absorb liquid contents in the event of rupture of this battery; and
- (C) The packaging must be labeled with a CORROSIVE label, marked to indicate proper orientation, and marked with the words, "Battery, wet, with wheelchair."
- 21) Hair curlers containing hydrocarbon gas, no more than one per passenger or crew member, provided that the safety cover is securely fitted over the heating element. Gas refills for such curlers are not permitted in checked or carry-on baggage.
- 22) A mercurial barometer or thermometer carried as carry-on baggage only, by a representative of a government weather bureau or similar official agency, provided that individual advises the operator of the presence of the barometer or thermometer in his baggage. The barometer or thermometer must be packaged in a strong outer packaging having a sealed inner liner or a bag of strong, leak-proof and puncture-resistant material impervious to mercury, which will prevent the escape of mercury from the package irrespective of its position. The Pilot-In-Command must be informed of the presence of any such barometer or thermometer by the operator of the aircraft.
- 23) With the approval of the operator of the aircraft and as carry-on baggage, electrically powered heat-producing articles (e.g., battery-operated equipment such as underwater torches and soldering equipment) which, if accidentally activated, will generate extreme heat and can cause fire. The heat-producing component or the energy source must be removed so as to prevent unintentional functioning during transport.

24) Reserved

- 25) With the approval of the aircraft operator, a passenger or crew member may carry in checked or carry-on baggage no more than two small gas cartridges containing no more than a Division 2.2 gas that are fitted into a self-inflating lifejacket for inflation purposes, plus no more than two spare cartridges.
- 26) A small medical or clinical mercury thermometer for personal use, when carried in protective cases by passengers or crew members.
- b) A cylinder containing medical-use compressed oxygen, owned or leased by an aircraft operator or offered for transportation by a passenger needing it for personal medical use at destination, may be carried in the cabin of a passenger-carrying aircraft in accordance with the following provisions:
 - 1) No more than six cylinders belonging to the aircraft operator and, in addition, no more than one cylinder per passenger needing the oxygen at destination, may be transported in the cabin of the aircraft under the provisions of the paragraph (b);
 - 2) The rated capacity of each cylinder may not exceed 850 liters (30 cubic feet);

- 3) Each cylinder and its overpack or outer packaging (see Special Provision A52 in Section 172.102 of this subchapter) must conform to the provisions of this subchapter;
- 4) The aircraft operator shall securely stow the cylinder in its overpack or outer package in the cabin of the aircraft and shall notify the pilot-in-command as specified in Section 175.33 of this part; and
- 5) Shipments under this paragraph (b) are not subject to-
 - (i) Subpart C and, for passengers only, subpart H of part 172 of this subchapter;
 - (ii) Section 173.25(a)(4) of this subchapter.
 - (iii) Section 175.85(i).

^{*}Air carriers who do NOT have FAA approval to transport dangerous goods cannot take advantage of the provisions of this exception.

APPENDIX E

Hazardous Materials Incident Report: DOT Form F 5800.1 (01-2004)

Includes Guide for Preparing Hazardous Materials Incidents Reports

SEE ATTACHED



Research and Special Programs Administration

Guide for Preparing Hazardous Materials Incidents Reports





U.S. Department of Transportation

Research and Special Programs Administration

Hazardous Materials Incident Reporting

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Overview

Hazardous Materials Incident Report

Department of Transportation Form F 5800.1

What Federal Regulation Requires Me To Submit the Report?

The Hazardous Materials Regulations (HMR; 49 CFR Parts 171-180) require that certain types of incidents be reported to the Research and Special Programs Administration (RSPA). Section 171.15 of the HMR requires an immediate telephonic report (within 12 hours) of certain types of hazardous materials incidents and a follow-up written report. Section 171.16 requires a written report for certain types of hazardous materials incidents within 30 days. Each type of report is explained below. (The full text of these sections is at the end of the instructions.)

What is the Purpose of the Report?

The information you are providing in this report is fundamental to hazardous material transportation risk analysis and risk management by government and industry. It allows us to better understand the causes and consequences of hazardous material transportation incidents. The data is used to identify trends and provide basic program performance measures. It helps to demonstrate the effectiveness of existing regulations and to identify areas where changes should be considered. It also assists all parties, including industry segments and individual companies, in understanding the types and frequencies of incidents, what can go wrong, and possible measures that would prevent their recurrence. Your accurate and complete description of incidents can make a significant contribution to continual safety improvement through better regulations, cooperative partnerships, and individual efforts.

Who Must Complete the Report?

Any person in possession of a hazardous material during transportation, including loading, unloading and storage incidental to transportation, must report to the

Department of Transportation (DOT) if certain conditions are met. This means that when the conditions apply for completing the report, the entity having physical control of the shipment is responsible for filling out and filing DOT Form F 5800.1.

For example, if a shipper is carrying hazardous material, the consignee is unloading the material and there is an incident involving this material, the consignee is responsible for filling out and filing the form. However, if the consignee is unloading the hazardous material and causes a hazardous materials incident involving a consignment intended for someone else, the shipper is responsible for filling out and filing the form.

What Definitions Should I Know in Order to Complete the Report?

In order to accurately complete the report, you should be familiar with the following terms. A complete list of definitions is contained in § 171.8.

Bulk packaging—a packaging, other than a vessel or a barge, including a transport vehicle or freight container, in which hazardous materials are loaded with no intermediate form of containment and which has:

- A maximum capacity greater than 450 liters (119 gallons) as a receptacle for a liquid;
- (2) A maximum net mass greater than 400 kilograms (822 pounds) and a maximum capacity greater than 450 liters (119 gallons) as a receptacle for a solid; or
- (3) A water capacity greater than 454 kilograms (1,000 pounds) as a receptacle for a gas as defined in § 173.115.

Cargo tank—a bulk packaging which is:

 A tank intended primarily for the carriage of liquids or gases and includes appurtenances, reinforcements, fittings, and closures;

- (2) Is permanently attached to or forms a part of a motor vehicle, or is not permanently attached to a motor vehicle but which, by reason of its size, construction, or attachment to a motor vehicle, is loaded or unloaded without being removed from the motor vehicle; and
- (3) Is not fabricated under a specification for cylinders, intermediate bulk containers, multiunit tank car tanks, portable tanks, or tank cars.

Hazardous material—a substance or material that has been determined to be capable of posing an unreasonable risk to health, safety, and property when transported in commerce, and that has been so designated. The term includes hazardous substances, hazardous wastes, marine pollutants, elevated temperature materials, materials designated as hazardous under the provisions of § 172.101, the Hazardous Materials Table (HMT), and materials that meet the defining criteria for hazard classes and divisions in Part 173.

Hazardous substance—a material, including its mixtures and solutions, that—

- Is listed in Appendix A to § 172.101;
- (2) Is in a quantity, in one package, which equals or exceeds the reportable quantity (RQ) listed in Appendix A to § 172.101; and
- (3) When in a mixture or solution—
 - (i) For radionuclides, conforms to paragraph 7 of Appendix A to § 172.101.
 - (ii) For other than radionclides, is in a concentration by weight which equals or exceeds the concentration corresponding to the RQ of the material, as shown in Table 1.

The term hazardous substance does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance

Table 1 Reportable Quantities.

RQ pounds	Concentration by Weight	
(kilograms)	Percent	PPM
5000 (2270)	10	100,000
1000 (454)	2	20,000
100 (45.4)	0.2	2,000
10 (4.54)	0.02	200
1 (0.454)	0.002	20

in Appendix A to § 172.101, and the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas useable for fuel (or mixtures of natural gas and such synthetic gas).

Hazardous waste—any material that is subject to the Hazardous Waste Manifest Requirements of the U.S. Environmental Protection Agency specified in 40 CFR Part 262.

Marine pollutant—a material that is listed in Appendix B to § 172.101 (also see § 171.4) and, when in a solution or mixture of one or more marine pollutants, is packaged in a concentration that equals or exceeds:

- (1) Ten percent by weight of the solution or mixture for materials listed in Appendix B; or
- (2) One percent by weight of the solution or mixture for materials that are identified as severe marine pollutants in Appendix B.

Undeclared hazardous material—means a hazardous material that is:

- (1) Subject to any of the hazard communication requirements in subparts C (Shipping Papers), D (Marking), E (Labeling), and F (Placarding) of Part 172 of this subchapter, or an alternative marking requirement in Part 173 of this subchapter (such as §§ 173.4(a)(10) and 173.6(c)); and
- (2) Offered for transportation in commerce without any visible indication to the person accepting the hazardous material for transportation that a hazardous material is present, on either an

accompanying shipping document, or the outside of a transport vehicle, freight container, or package.

Unintentional release—the escape of a hazardous material from a package on an occasion not anticipated or planned. This includes releases resulting from collision, package failures, human error, criminal activity, negligence, improper packing, or unusual conditions such as the operation of pressure relief devices as a result of over-pressurization, overfill, or fire exposure. It does not include releases, such as venting of packages, where allowed, and the operational discharge of contents from packages.

Additionally, for purposes of reporting on this form, the following definitions should be used:

Lading retention system—a lading retention system consists of those items or equipment that provide containment of hazardous materials at some point during transportation, including loading and unloading. The cargo tank shell, associated piping, and valves are an example of a lading retention system. Dents or damage to a tank requiring repair to an accident protection system guarding the tank are examples of incidents that must be reported. Paint chips and scratches to either the tank or the accident protection system are examples of incidents that do not require reporting.

Major transportation artery—a highway, main road or secondary road but not a side street or dirt road. In the case of rail, any rail line except a rail spur.

When Must I Submit a Written Report (DOT Form F 5800.1)?

Under § 171.16, you must submit a written report within 30 days after any of the following:

- An incident that was reported by telephonic notice under § 171.15;
- An unintentional release (see definitions) of a hazardous material during transportation including loading, unloading and temporary storage related to transportation;
- A hazardous waste is released;

- An undeclared shipment with no release is discovered; or
- A specification cargo tank 1,000 gallons or greater containing any hazardous materials that—
 - received structural damage to the lading retention system or damage that requires repair to a system intended to protect the lading retention system, and
 - (2) did not have a release.

To clarify the requirement for a report based on structural damage to a specification cargo tank, Table 2 illustrates some examples.

When Is a Report Not Required?

You are not required to report a release of a hazardous material if **ALL** of the following apply:

- The shipment is not being offered for transportation or being transported by air;
- None of the criteria in § 171.15(a) applies;
- The material is not a hazardous waste;
- The material is properly classed as an ORM-D, or a Packing Group III material in Class or Division 3, 4, 5, 6.1, 8, or 9;
- Each package has a capacity of less than 20 liters (5.2 gallons) for liquids or less than 30 kg (66 pounds) for solids;
- The total aggregate release is less than 20 liters (5.2 gallons) for liquids or less than 30 kg (66 pounds) for solids;
- The material does not meet the definition of an undeclared hazardous material in § 171.8; and
- The shipment is an undeclared material discovered in an air passenger's checked or carryon baggage during the airport screening process.

Table 2 Examples to Clarify When to Report Structural Damage to a Specification Cargo Tank.

Incident Report Required	No Incident Report Required	
Damage to an outlet valve that affects seating and requires replacement.	Handle broken or knocked off valve - but otherwise undamaged.	
Serious damage that, if worse, could have resulted in the loss of the contents of the cargo tank. Damage to outlet lines that contain hazardous materials during transportation is in this category.	Serious damage that, even if worse, would not have resulted in the loss of the contents of the cargo tank. Damage to outlet lines that are normally not charged during transportation is in this category.	
Cargo tank damage that requires professional inspection or recertification to ensure it is capable of meeting requirements.	Minor damage that obviously will not affect continuation of the cargo tank in service.	
Cargo tank damage that requires immediate or subsequent repair because of questions about cargo tank integrity.	Cargo tank damage that requires repair for cosmetic reasons only.	

Also, you are not required to report releases of minimal amounts of material (i.e., a pint or less) released from the manual operation of seals of pumps, compressors, or valves, during the connecting or disconnecting of loading and unloading lines, or, for materials for which venting is authorized, from vents, provided these releases do not result in property damage or trigger any of the telephonic notifications requirements found in § 171.15.

When Must I Make a Telephonic Report?

Under § 171.15, you must provide **telephone notice within 12 hours** after the incident occurs when one of the following conditions occurs during the course of transportation and is a direct result of the hazardous material:

- A person is killed;
- A person receives an injury requiring admittance to a hospital.
- The general public is evacuated for one hour or more;
- One or more major transportation arteries or facilities are closed for one hour or more:
- The operational flight plan or routine of an aircraft is altered;
- Fire, breakage, spillage or suspected radioactive contamination occurs involving a radioactive material;

- Fire, breakage, spillage or suspected contamination occurs involving an infectious substance other than a diagnostic specimen or regulated medical waste;
- There is a release of a marine pollutant in a quantity exceeding 450 liters (119) gallons for liquids or 400 kilograms (882 pounds) for solids; or
- A situation exists of such a nature that in the judgment of the person in possession of the hazardous material, it should be reported to DOT's National Response Center (NRC) even though it does not meet the above criteria.

You may decide that the situation should be reported even though it does not meet any of the above criteria. Make sure that you request the NRC report number when you make your telephonic report.

What Telephone Number Do I Call to Make an Immediate Notification of a Hazardous Materials Incident?

You must call 800-424-8802 (toll-free) or 202-267-2675 (toll-call) to make a telephonic incident report. This is the number to the NRC. This call must be made within 12 hours of the events that trigger this requirement. If the incident

involves an infectious substance, you may notify the Director, Center for Disease Control and Prevention (CDC), U.S. Public Health Service, Atlanta, Georgia, toll-free at 800-232-0124. If a discrepancy of a shipment intended for air is discovered following its acceptance aboard aircraft, notify the nearest Federal Aviation Administration Civil Aviation Security Office as soon as practical.

How Long Do I Have to Submit the Written Report?

You must submit your written report within **30 days of discovery of the incident**, § 171.16(a).

Am I Required to Update the Information in the Report?

Yes. You must use DOT Form F 5800.1 and check the "A supplemental (follow-up) report" box on question #2 to provide additional information after the initial report. You are required to provide updates for up to one year after the initial filing if more information is gained or new developments arise concerning the following, for example:

- A death results from injuries caused by a hazardous material;
- The person responsible for preparing the original report learns that there is a misidentification of hazardous material or package information;

- Damage or loss or related costs that were not known at the time the report was filed become known; or
- Revised estimates of damages, losses, and related costs result in a change of \$25,000 or more, or 10% of the original cost estimates, whichever is greater, even if the original estimate was under \$500.

How and Where Do I Submit My Completed Report?

- You can mail paper copies of the report to the Information Systems Manager, U.S. Department of Transportation, Research and Special Programs Administration, Office of Hazardous Materials Safety, DHM-63, Washington, DC 20590-0001; or
- You can submit the report online at http://hazmat.dot.gov.

How Long Must I Keep a Copy of the Report?

You must keep a copy of each report or an electronic image of the report for two years after the date you submit it to RSPA (§ 171.16(b)(3)).

Where Must I Keep a Copy of the Report?

The report must be accessible through your company's principal place(s) of business. You must be able to make the report available upon request to authorized representatives or a special agent of the Department within 24 hours of such a request (§ 171.16(b)(3)).

How Can I Get a Blank Copy of the DOT Form F 5800.1?

There are a variety of sources for obtaining the DOT Form F 5800.1. Please note that you are allowed to make unlimited photocopies of the form and distribute them.

- You may obtain limited copies of the form from the Information Systems Manager at the above address.
- You may download a copy of the form from our website at http://hazmat.dot.gov/spills.htm

 Our Fax on Demand service has copies of the instructions and the form. Call 800-467-4922 and choose the Fax on Demand option #2.

How Long Does It Take To Complete the Report?

RSPA anticipates that it will take you approximately 1.6 hours to complete this report. This estimate includes the time it will take you to review the instructions, search your existing data sources for information, gather the required data, and complete and review the report.

How Can I Comment on the Length of Time Needed to Complete the Report or on the Amount of Information Required in the Report?

You can send your comments on the report, and any suggestions you have for reducing the amount of time needed to complete the report, to the following address:

 Information Systems Manager, U.S. Department of Transportation, Research and Special Programs Administration, Office of Hazardous Materials Safety, DHM-63, Washington, DC 20590-0001.

Please verify that your information is accurate. Although the required information is generally available at the time of the incident, you may need to do some additional investigation in order to obtain all of the facts pertaining to deaths, injuries or damage amounts. If you submit complete and accurate information at the time you file the report, it will decrease the chance of your having to supply missing information to DOT at a later date. RSPA may follow up on incomplete forms.

Instructions Completing DOT Form F 5800.1

Please print. Fill in all applicable blanks accurately to the best of your ability.

Part I: Report Type

- This is to report: Check the box that describes why you are filling out this form. This will normally be "A) A hazardous material incident." If you are reporting an undeclared shipment with no release, check the corresponding box, "B)." If you are reporting an incident involving a cargo tank motor vehicle containing a hazardous material that received structural damage to the lading retention system that may affect its ability to retain lading but does not release a hazardous material, check that appropriate box. "C)."
- (2) Indicate what type of report this is: If this is an initial report, check the "initial report" box. If this is a follow-up to a previous report, check the "A supplemental (follow-up) report" box. If you are using additional pages, check the "Additional Pages" box.

Part II: General Incident Information

- (3), (4) Date & Time of Incident: Enter the date and time the incident occurred. If you do not know the actual date and time, give the date and time you discovered the incident. Use 24-hour time for the incident time (e.g., "2400" for midnight, "1200" for noon, "0747" for 7:47 a.m., "2115" for 9:15 p.m.).
- (5) Enter National Response Center Report Number: If this incident was reported to the NRC, fill in the report number NRC assigned to the incident.
- (6) If you submitted a report to another Federal DOT agency, enter the agency and report number: If you were required to fill out a report for another federal agency such as the Federal

- Railroad Administration (FRA) or the Federal Motor Carrier Safety Administration (FMCSA) for this incident, please include the agency and report number. This will facilitate our combination of information.
- (7) Location of Incident: Enter the geographic location of the incident (city, county, state, and zip code). If you do not know the actual location where the incident occurred, give the location where it was discovered. If the incident occurred at an airport or rail yard, include the name of the facility. If the incident occurred on a body of water, include the name and/or river mile. If you do not know the street address. or if the incident occurred on a highway, include a description such as "On I-70, mile marker 240."
- (8) Mode of Transportation: Enter the code that corresponds to the mode of transportation in which the incident occurred or was discovered. If the incident occurred or was discovered in an in-transit storage area (e.g., a terminal or warehouse), check the box that corresponds to the mode by which the package was last transported.
- (9) Transportation Phase: Enter the code that describes where the incident occurred in the transportation system. In transit means the incident occurred or was first discovered while the package was in the process of being transported. In-transit storage is storage incidental to transportation, such as at a terminal waiting for the next leg of transportation.
- (10) Carrier/Reporter: Carrier/Reporter: Provide the name, street address, Federal DOT number (if applicable), and hazmat registration number of the carrier or the entity who is reporting the incident (if other than a carrier). The entity in physical possession of the material when the incident

- occurred or was discovered must report the incident.
- (11) Shipper/Offeror: Enter the information about the person or entity that originally offered for transportation the material or package involved in the incident.
- (12) Origin: Enter the origin of the shipment if the address is different than the shipper/offeror information entered in item #11.
- (13) Destination: Enter the final destination of the shipment involved in the incident.
- (14) through (19):

Hazardous Material Description: Enter the proper shipping name, technical or trade name, hazard class or division, ID number, packing group, and amount of material released. All of this information, except the amount of material released, can be found on the shipping papers that accompany the shipment,

- § 172.202. When indicating the amount of material released, include units of measurements (examples: 115 gallons, 69 tons).
- (20) Was the material shipped as a hazardous waste? Check the "Yes" box if the material meets the definition of a hazardous waste in § 171.8 (requires an EPA Uniform Hazardous Waste Manifest). Include the EPA Manifest number.
- (21) Is this a Toxic by Inhalation (TIH) material? If the material involved in the incident meets the definition of a Toxic by inhalation material in § 173.132, check the "Yes" box and enter the Hazard Zone in the space provided.
- (22) Was the material shipped under an Exemption, Approval, or Competent Authority Certificate? If the shipment was shipped under an exemption, an approval, or a Competent Authority Certificate, check the "Yes" box and provide the appropriate assigned number.

Was this an undeclared hazard-(23)ous materials shipment? If this material was not indicated in any way to be a hazardous material even though it was required to be described as such on a shipping paper, or if the material would normally be excepted from the shipping paper requirements (such as a small quantity material) and does not have the required markings, it is considered an undeclared hazardous material shipment. Check the appropriate box.

Part III: Packaging Information

- (24) Packaging Type: Check the box that corresponds to the type of packaging involved in the incident. If more than one packaging type was involved in an incident, reproduce Part III of the form and fill out this section for each of the packaging types. For example, if three different packaging types were involved in an incident, fill out a separate Part III for each packaging type. If the type of packaging is not represented, check the "Other" box and enter a brief description such as "non-specification bulk bin."
- Enter the appropriate failure (25)codes (found at the end of the instructions): Enter the codes that describe what failed on the packaging, how the packaging failed, and the cause(s) of the failure. Be sure to enter the codes from the list that corresponds to the particular packaging types checked above (#24). Enter the most important failure point in line 1. If there is a second failure point, enter in line 2. If there are more than two failure points, provide additional information in this format in Part VI. The following explains the content of each line:

What Failed: You can enter up to 2 "What Failed" codes to describe the part of the packaging that fails and was the immediate cause of the release. Often, on a simple Plastic

Table 3 Non-bulk	and IBC	Packaging	Identification	Codes.
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	3 3				
	Non-Bulk Packaging				
			Outer Packaging		
	Туре		Material		Head Type
1 2 3 4 5 6 7	Drum Wooden Barrel Jerrican Box Bag Composite Packaging Pressure receptacle	A B C D F G H L M N P	Steel Aluminum Natural Wood Plywood Reconstituted Wood Fiberboard Plastic Textile Paper, multiwall Metal other than Steel or aluminum Glass, porcelain, or stoneware	1 2	Non-removable Removable
		•	Inner Packaging	•	
1 2 3 4 5	Bottle Can Box Bag Cylinder	A B C D E	Metal (any type) Glass, Porcelain, or stoneware Plastic Fiberboard or cardboard Wood (any type)		
	IBC Packaging Identification Codes				
			Material of Construction		
1	Metal	3	Composite	5	Wooden

Fiberboard

packaging, only one code will be required. On more complex packaging, additional entries will help identify where that failure occurred. The first entry should designate the specific point of failure, followed by entries that help identify where that failure occurred. For instance, a deteriorated gasket on a pipe flange on the liquid line would have failure code 121 for gasket entered first and failure code 118 for flange entered second.

How Failed: Enter the "Failure" code that describes how the corresponding part of the packaging failed. The primary way the packaging failed should be entered first.

Cause(s) of Failure: Enter the "Cause of Failure" code that describes what caused the corresponding part of the packaging to fail in the way it did. The most probable or fundamental cause of failure should be entered first.

Flexible

If none of the codes on the list fit exactly, use the closest matches and provide additional detail in Part VI. Also, if you believe a better set of codes would be more descriptive of what failed, how it failed, and the causes of failure, suggest them in Part VII.

- (26a) Provide the complete packaging identification markings, if available: Every specification packaging, UN or DOT, has a packaging identification printed or stamped on it or on a plate attached to the packaging. Examples are provided on the form.
- (26b) For Non-bulk, IBC, or non-specification packaging: Only fill out 26b if the marking is incomplete, destroyed, or unknown. Fill in the Outer and Inner packaging type and Material of Construction information, as appropriate. If the

- packaging is non-bulk or Intermediate Bulk Container (IBC), use the codes in Table 3 to enter the number or letter that applies for either non-bulk or IBC packaging. For non-bulk, IBC or non-specification packaging provide a *description* of the packaging in the space(s) provided.
- (27) Describe the package capacity and the quantity: Enter the total capacity of the inner and outer package. Also enter the actual amount of hazardous material that was shipped in the package, the number of packages in the shipment, and the number of packages that failed. Please include the units of measurement (liter, gallons, pounds, cubic feet, etc.)
- (28) Provide package construction and test information, as appropriate: In the case of Nonbulk packagings or IBCs enter the name of the packaging manufacturer or the symbol of the manufacturer only if complete identification markings were not provided in #26b. Enter the date of manufacture and the serial number, if applicable. Enter the last test date if the packaging requires periodic testing. Also include the design pressure, shell thickness, head thickness, and service pressure if the failed packagings are of the type indicated in parenthesis after each question. If the packaging contained a valve, or other device that failed and resulted in a hazardous material release, enter the valve or device type, manufacturer (if present and legible), and model number (if present and legible).
- (29) If the package is for Radioactive Materials, complete the following:
 Complete this question only if a radioactive material was involved. Indicate the packaging category, the packaging certification, certification number, and which nuclides were present, the transportation index (TI), activity of the nuclides, and the criticality safety index.

Part IV: Consequences

- (30) Result of Incident: Check all boxes that describe what occurred during the incident or as a result of the incident. For example, in a situation where a truckload of 55 gallon drums of corrosive liquids overturns resulting in a release that contaminates a nearby wetlands and stream the boxes "Spillage," "Material Entered Waterway/Storm Sewer," and "Environmental Damage" may apply.
- (31) Emergency Response: Check all boxes that correspond with any emergency response and cleanup crews that participated in resolving the incident. If a fire crew, EMS, or police unit responded to the incident, include the report number.
- (32) Damages: You are required to provide information on estimated damages if your damages exceed \$500.00. This figure includes the cost of the material lost, property damage, vehicle damage, response costs, and clean-up costs. If you do not know these amounts at the time you complete the report, or the actual costs are revised by more than \$25,000, you must submit a follow-up report after you determine the amounts. The following definitions explain each of the costs:

Material Loss: Enter the value of material released and unrecoverable. Base this entry on the amount of material released multiplied by the unit value (e.g., price per gallon or price per pound) as listed on the shipper's invoice. If the invoice is not available, estimate the cost per unit using the shipper's basis.

Carrier Damage: Enter the total value of damage incurred by the carrier. Major components include

costs to repair the damaged vehicle and costs resulting from damage to cargo. If the vehicle is declared "totaled," enter the insured value of the vehicle. This entry should not include damage to other property or to vehicles owned by other persons.

Property Damage: Enter the total value of costs resulting from damage to the property of others involved in the incident. These include: repair and replacement costs of other vehicles; repair and replacement costs to buildings and other fixed facilities; and restoration of open land beyond decontamination and cleanup.

Response Cost: Enter the total value of response costs. Response costs are those costs incurred immediately after the incident, and include local emergency response from police and fire departments and emergency response teams, as well as costs incurred by the responsible party. Response costs also include costs to contain the hazardous material released.

Remediation/Cleanup Cost: Enter the total value of the cost to cleanup and remediate the site. Cleanup costs are those costs incurred to collect, transport, and ultimately dispose of all material collected during the response phase. Remediation costs are those costs incurred to restore the incident scene to its preincident state, and could include excavation, disposal and replacement contaminated soil, pumping, treatment and re-injection of contaminated groundwater, or absorption and disposal of hazardous material released into surface water.

- (33a) Did the hazardous material cause or contribute to a human fatality? If a person was fatally injured by contact with the hazardous material or its vapors or by a fire or explosion that resulted from the hazardous material, check the "Yes" box and enter the number of fatalities that resulted directly from the hazardous material.
- (33b) Were there human fatalities that did not result from the hazardous material? If the fatalities were not caused directly by the hazardous material, check the "Yes" box and enter the number of fatalities. An example: if a passenger car collided with a cargo tank carrying gasoline and the automobile driver was killed due to the collision, then the fatality was *not* caused by the hazardous material released. If, however, the accident resulted in the release of gasoline from the cargo tank and a resulting fire killed the automobile driver, then the fatality was caused by the hazardous material.
- (34) Did the hazardous material cause or contribute to a personal injury? If a person was injured by contact with the hazardous material or its vapors or by a fire or explosion that resulted from the hazardous material, check the "Yes" box and enter the number of persons injured by the hazardous material.

Hospitalized means admitted to a medical facility, not treated and released from a facility, such as a hospital emergency room, where the person was never admitted to the hospital Non-hospitalized proper. individuals are those who may have received attention from medical personnel on-site or at a facility (including hospital emergency room), but were not admitted to a medical facility. Indicate the number of injured employees, emergency responders (firefighters, police, medics, etc.) and members of the general public.

- (35)Did the hazardous material cause or contribute to an evacuation? If the incident required the evacuation or removal of persons from a specific area because of possible or actual contact with the hazardous materials involved in the incident, check the "Yes" box. Separately specify the numbers of individuals from the general public evacuated and number of employees of the facility or workers in the area that were evacuated. Also provide the total number of individuals evacuated. Indicate the duration of the evacuation (in hours).
- (36) Was a transportation artery or facility closed? If a road or transportation facility was closed due to the incident, check the "Yes" box and indicate the duration (in hours) here.
- (37) Was the material involved in a crash or derailment? Check the "Yes" box if a hazardous material was involved in a crash or derailment. Provide the estimated speed and weather conditions at the time of the crash, such as rain, blowing snow, sleet, iced roadway, sun glare, fog, dry pavement, high winds, etc. Indicate if the vehicle overturned or left the roadway or track.

Part V: Air Incident Information

This section is for incidents with packagings transported or intended for transportation by aircraft. If your packaging was not transported or intended to be transported by air, skip this section.

- (38) Was the shipment on a passenger aircraft? Indicate whether the shipment in question was on a commercial passenger aircraft. If so, indicate if the material was tendered (accepted for shipment) as cargo, or was located in a passenger's baggage, either in the cabin or baggage compartment.
- (39) Where did the incident occur or where was the incident discovered? Indicate where in the course of transportation the incident occurred or was discovered.
- (40) What phase(s) had the shipment already undergone prior to the incident? Check all boxes that describe the transportation phases the shipment went through before the incident occurred or was discovered.

Part VI: Description of Events and Packaging Failure

Please describe the events involved in the incident to provide us with a better understanding of the incident. Include information that has not been collected elsewhere on this form, and include special scenarios, outstanding circumstances, or other information that provides a complete picture of the incident. Describe the sequence of events that led to the incident, the package failure (if any) and actions taken at the time of discovery. Submit photographs and diagrams when necessary for clarification. You may continue on additional sheets if necessarv.

Part VII: Recommendations/ Actions Taken to Prevent Future Incidents

Recommendations may be preliminary in nature, may suggest actions by other parties, and may be subject to further investigation, refinement, acceptance, or rejection. Often, it may be beyond the ability of the preparer to offer recommendations, but where such recommendations can be made they have the potential of resulting in important improvements with safety benefits. For instance, such information can help companies identify common problems and alert the DOT to the need for additional measures such as outreach or broad training needs. This information can also help support regulatory changes.

Part VIII: Contact Information

Provide the name, title, telephone number, fax number, business name and address, hazmat registration number and email address of the contact person at your company who can answer questions about the information provided on this form. Make sure to check the box that describes the function of your firm: carrier, shipper, facility owner/operator, or other. If "Other" is checked, describe the function.

Failure Codes for All Packaging Types—Complete List

Code	What Failed	Code	How Failed	Code
101	Air Inlet	301	Abraded	103
102	Auxiliary Valve	302	Bent	104
103	Basic Material	303	Burst or Ruptured	105
104	Body	304	Cracked	108
105	Bolts or Nuts	305	Crushed	109
106	Bottom Outlet Valve	306	Failed to Operate	110
107	Check Valve	307	Gouged or Cut	119
108	Chime	308	Leaked	120
109	Closure (e.g., Cap, Top, or Plug)	309	Punctured	120
110	Cover	310	Ripped or Torn	121
111	Cylinder Neck or Shoulder	311	Structural	125
112	Cylinder Sidewall - Near Base	312	Torn Off or Damaged	128
113	Cylinder Sidewall - Other	313	Vented	129
114	Cylinder Valve	010	vented	130
115	Discharge Valve or	Code	Cause(s) of Failure	132
110	Coupling	Code	Cause(s) of Failure	140
116	Excess Flow Valve	501	Abrasion	140
117	Fill Hole	502	Broken Component or Device	143
118	Flange	503	Commodity Self-ignition	444
	•	504	Commodity Polymerization	144
119	Frangible Disc	505	* *	
120	Fusible Pressure Relief Device or Element	505	Conveyer or Material Handling	161
404		F00	Equipment Mishap	
121	Gasket	506	Corrosion - Exterior	Code
122	Gauging Device	507	Corrosion - Interior	
123	Heater Coil	508	Defective Component or Device	301
124	High Level Sensor	509	Derailment	302
125	Hose	510	Deterioration or Aging	303
126	Hose Adaptor or Coupling	511	Dropped	304
127	Inlet (Loading) Valve	512	Fire, Temperature, or Heat	305
128	Inner Packaging	513	Forklift Accident	306
129	Inner Receptacle	514	Freezing	307
130	Lifting Feature	515	Human Error	308
131	Lifting Lug	516	Impact with Sharp or Protruding	309
132	Liner		Object (e.g., nails)	310
133	Liquid Line	517	Improper Preparation for	311
134	Liquid Valve		Transportation	312
135	Loading or Unloading Lines	518	Inadequate Accident Damage	313
136	Locking Bar		Protection	
137	Manway or Dome Cover	519	Inadequate Blocking and Bracing	
138	Mounting Studs	520	Inadequate Maintenance	Code
139	O-Ring or Seals	521	Inadequate Preparation for	Oodo
140	Outer Frame		Transportation	501
141	Piping or Fittings	522	Inadequate Procedures	503
142	Piping Shear Section	523	Inadequate Training	504
143	Pressure Relief Valve or	524	Incompatible Product	505
	Device - Non-Reclosing	525	Incorrectly Sized Component or	000
144	Pressure Relief Valve or		Device	506
	Device -Reclosing	526	Loose Closure, Component, or	507
145	Remote Control Device		Device	508
146	Sample Line	527	Misaligned Material, Component, or	510
147	Stub Sill (Tank Car)	021	Device	
148	Sump	528	Missing Component or Device	511
149	Tank Head	529	Overfilled	513
150	Tank Shell	530	Over-pressurized	514
	Thermometer Well	531	Rollover Accident	515
151 152	Threaded Connection	532	Stub Sill Separation from Tank	516
		332	·	
153	Vacuum Relief Valve	E22	(Tank Cars)	517
154	Valve Body	533	Threads Worn or Cross Threaded	
155	Valve Seat	534	Too Much Weight on Package	521
156	Valve Spring	535	Valve Open	_
157	Valve Stem	536	Vandalism	522
158	Vapor Valve	537	Vehicular Crash or Accident	523
159	Vent	===	Damage	529
160	Washout	538	Water Damage	530
161	Weld or Seam			534
				535
				536

Failure Codes by Packaging Type General Non-bulk and IBCs

Code What Failed

Basic Material

104	Body
105	Bolts or Nuts
108	Chime
109	Closure (e.g., Cap, Top, or Plug)
110	Cover
119	Frangible Disc
120	Fusible Pressure Relief Device or Element
121	Gasket
125	Hose
128	Inner Packaging
129	Inner Receptacle
130	Lifting Feature
132	Liner
140	Outer Frame
143	Pressure Relief Valve or Device -
	Non-Reclosing
144	Pressure Relief Valve or
	Device - Reclosing
161	Weld or Seam

Code How Failed

301	Abraded
302	Bent
303	Burst or Ruptured
304	Cracked
305	Crushed
306	Failed to Operate
307	Gouged or Cut
308	Leaked
309	Punctured
310	Ripped or Torn
311	Structural
312	Torn Off or Damaged
313	Vented

Code Cause(s) of Failure

oouc	oudse(s) or runare
501	Abrasion
503	Commodity Self-ignition
504	Commodity Polymerization
505	Conveyer or Material Handling
	Equipment Mishap
506	Corrosion - Exterior
507	Corrosion - Interior
508	Defective Component or Device
510	Deterioration or Aging
511	Dropped
513	Forklift Accident
514	Freezing
515	Human Error
516	Impact with Sharp or Protruding
	Object (e.g., nails)
517	Improper Preparation for
	Transportation
521	Inadequate Preparation for
	Transportation
	Inadequate Procedures
	Inadequate Training
	Overfilled
	Overpressurized
	Too Much Weight on Package
	Valve Open
	Vandalism
537	Vehicular Crash or Accident
	Damage
538	Water Damage
	503 504 505 506 507 508 510 511 513 514

Failure Codes by Packaging Type (continued)						
Cylin	ders	Port	able Tanks	Bulk Tank Vehicles—Cargo Tank Motor Vehicles (CTMV) and Tank Cars		
Code	What Failed	Code	What Failed	Code	What Failed	
111	Cylinder Neck or Shoulder	105	Bolts or Nuts	101	Air Inlet	
112	Cylinder Sidewall - Near Base	106	Bottom Outlet Valve	105	Bolts or Nuts	
113	Cylinder Sidewall - Other	107	Check Valve	106	Bottom Outlet Valve	
114	Cylinder Valve	108	Chime	107	Check Valve	
119	Frangible Disc	109	Closure (e.g., Cap, Top, or Plug)	110	Cover	
120	Fusible Pressure Relief Device or Element	110	Cover	115	Discharge Valve or Coupling Excess Flow Valve	
122	Gauging Device	119	Frangible Disc	116	Fill Hole	
132	Liner	120 121	Fusible Pressure Relief Device or Element Gasket	117 118	Flange	
143	Pressure Relief Valve or Device - Non- Reclosing	121	Gauging Device	119	Frangible Disc	
144	Pressure Relief Valve or Device -	125	Hose	120	Fusible Pressure Relief Device or Element	
144	Reclosing	127	Inlet (Loading) Valve	121	Gasket	
161	Weld or Seam	131	Lifting Lug	122	Gauging Device	
		132	Liner	123	Heater Coil	
Code	How Failed	135	Loading or Unloading Lines	124	High Level Sensor	
Jouc	now ranea	137	Manway or Dome Cover	125	Hose	
301	Abraded	140	Outer Frame	126	Hose Adaptor or Coupling	
303	Burst or Ruptured	141	Piping or Fittings	127	Inlet (Loading) Valve	
304	Cracked	143	Pressure Relief Valve or	131	Lifting Lug	
306	Failed to Operate		Device - Non-Reclosing	132	Liner	
307	Gouged or Cut	144	Pressure Relief Valve or Device - Reclosing	133	Liquid Line	
308	Leaked	152	Threaded Connection	134	Liquid Valve	
309	Punctured	153	Vacuum Relief Valve	135	Loading or Unloading Lines	
313	Vented	161	Weld or Seam	136	Locking Bar	
				137	Manway or Dome Cover	
Code	Cause(s) of Failure	Code	How Failed	138	Mounting Studs	
				139	O-Ring or Seals	
501	Abrasion	301	Abraded	141	Piping or Fittings	
502	Broken Component or Device	302	Bent	142	Piping Shear Section	
503	Commodity Self-ignition	303	Burst or Ruptured	143	Pressure Relief Valve or Device - Non-	
504	Commodity Polymerization	304	Cracked	444	Reclosing	
505	Conveyer or Material Handling	305	Crushed	144	Pressure Relief Valve or Device - Reclosing	
500	Equipment Mishap	306	Failed to Operate	145	Remote Control Device	
506	Corrosion - Exterior	307	Gouged or Cut	146 147	Sample Line	
507	Corrosion - Interior	308 309	Leaked Punctured	147	Stub Sill (Tank Car) Sump	
508 510	Defective Component or Device	310	Ripped or Torn	149	Tank Head	
510	Deterioration or Aging Fire, Temperature, or Heat	312	Torn Off or Damaged	150	Tank Shell	
512	Forklift Accident		_	151	Thermometer Well	
513	Freezing	313	Vented	152	Threaded Connection	
515	Human Error	Codo	Cause(s) of Failure	153	Vacuum Relief Valve	
516	Impact with Sharp or Protruding Object	Code	Cause(s) of Failure	154	Valve Body	
310	(e.g., nails)	501	Abrasion	155	Valve Seat	
517	Improper Preparation for Transportation	502	Broken Component or Device	156	Valve Spring	
519	Inadequate Blocking and Bracing	503	Commodity Self-ignition	157	Valve Stem	
520	Inadequate Maintenance	504	Commodity Polymerization	158	Vapor Valve	
521	Inadequate Preparation for Transportation	505	Conveyer or Material Handling	159	Vent	
522	Inadequate Procedures		Equipment Mishap	160	Washout	
523	Inadequate Training	506	Corrosion – Exterior	161	Weld or Seam	
524	Incompatible Product	507	Corrosion – Interior	101	Word of Codin	
525	Incorrectly Sized Component or Device	508	Defective Component or Device	Code	How Failed	
526	Loose Closure, Component, or Device	509	Derailment			
527	Misaligned Material, Component, or Device	510	Deterioration or Aging	301	Abraded	
528	Missing Component or Device	511	Dropped	302	Bent	
529	Overfilled	512	Fire, Temperature, or Heat	303	Burst or Ruptured	
530	Over-pressurized	514	Freezing	304	Cracked	
535	Valve Open	515	Human Error	305	Crushed	
536	Vandalism	517	Improper Preparation for Transportation	306	Failed to Operate	
537	Vehicular Crash or Accident Damage	520	Inadequate Maintenance	307	Gouged or Cut	
		521	Inadequate Preparation for Transportation	308	Leaked	
		522	Inadequate Procedures	309	Punctured	
		523	Inadequate Training	310	Ripped or Torn	
		524	Incompatible Product	311	Structural	
		525	Incorrectly Sized Component or Device	312	Torn Off or Damaged	
		526	Loose Closure, Component, or Device	313	Vented	
		527	Misaligned Material, Component, or Device	0 - 1 -	Course(a) of Failure	
		528 520	Missing Component or Device	Code	Cause(s) of Failure	
		529 530	Overfilled	501	Abrasion	
		530 531	Overpressurized Rollover Accident	501	Broken Component or Device	
		536	Vandalism	502	Commodity Self-ignition	
		537	Vehicular Crash or Accident Damage	504	Commodity Polymerization	
		551	133aiai Gradii di Addiddii Dalliage	551	(Continued on next page)	
					,	

Failure Codes by Packaging Type Bulk Tank Vehicles—Cargo Tank Motor Vehicles (CTMV) and Tank Cars Code Cause(s) of Failure

505	Conveyer or Material Handling
506	Equipment Mishap Corrosion - Exterior
	Corrosion - Interior
507	0011001011 111101101
508	Defective Component or Device
509	Derailment
510	Deterioration or Aging
511	Dropped
512	Fire, Temperature, or Heat
515	Human Error
517	Improper Preparation for
E40	Transportation
518	Inadequate Accident Damage
519	Protection Inadequate Blocking and Bracing
520	
520	Inadequate Maintenance
521	Inadequate Preparation for Transportation
EOO	•
522	Inadequate Procedures
523	Inadequate Training
524	Incompatible Product
525	Incorrectly Sized Component or
	Device
526	Loose Closure, Component,
	or Device
527	Misaligned Material, Component,
	or Device
528	Missing Component or Device
529	Overfilled
530	Overpressurized
531	Rollover Accident
532	Stub Sill Separation from Tank
500	(Tank Cars)
533	Threads Worn or Cross Threaded
536	Vandalism
537	Vehicular Crash or Accident
	Damage

Incident Reporting Requirements

§ 171.15 Immediate notice of certain hazardous materials incidents.

- (a) General. As soon as practical but no later than 12 hours after the occurrence of any incident described in paragraph (b) of this section, each person in physical possession of the hazardous material must provide notice by telephone to the National Response Center (NRC) on 800-424-8802 (tollfree) or 202-267-2675 (toll call). Notice involving an infectious substance (etiologic agent) may be given to the Director, Centers for Disease Control and Prevention (CDC), U.S. Public Health Service, Atlanta, Ga., 800-232-0124 (toll-free), in place of notice to the NRC. Each notice must include the following information:
 - (1) Name of reporter;
 - (2) Name and address of person represented by reporter;
 - (3) Phone number where reporter can be contacted;
 - (4) Date, time, and location of incident;
 - (5) The extent of injury, if any;
 - (6) Class or division, proper shipping name, and quantity of hazardous materials involved, if such information is available; and (7) Type of incident and nature of hazardous material involvement and whether a continuing danger to life exists at the scene.
- **(b) Reportable Incident.** A telephone report is required whenever any of the following occurs during the course of transportation in commerce (including loading, unloading, and temporary storage):
- (1) As a direct result of a hazardous material—
 - (i) A person is killed;
 - (ii) A person receives an injury requiring admittance to a hospital;
 - (iii) The general public is evacuated for one hour or more;
 - (iv) A major transportation artery or facility is closed or shut down for one hour or more; or

- (v) The operational flight pattern or routine of an aircraft is altered;
- (2) Fire, breakage, spillage, or suspected radioactive contamination occurs involving a radioactive material (see also § 176.48 of this subchapter);
- (3) Fire, breakage, spillage, or suspected contamination occurs involving an infectious substance other than a diagnostic specimen or regulated medical waste;
- (4) A release of a marine pollutant occurs in a quantity exceeding 450 L (119 gallons) for a liquid or 400 kg (882 pounds) for a solid; or
- (5) A situation exists of such a nature (e.g., a continuing danger to life exists at the scene of the incident) that, in the judgment of the person in possession of the hazardous material, it should be reported to the NRC even though it does not meet the criteria of paragraph (b) (1), (2), (3) or (4) of this section.
- **(c) Written report.** Each person making a report under this section must also make the report required by § 171.16 of this Subpart.

Note to § 171.15: Under 40 CFR 302.6, EPA requires persons in charge of facilities (including transport vehicles, vessels, and aircraft) to report any release of a hazardous substance in a quantity equal to or greater than its reportable quantity, as soon as that person has knowledge of the release, to DOT's National Response Center at (toll-free) 800-424-8802 or (toll) 202-267-2675.

§ 171.16 Detailed hazardous materials incident reports.

- (a) **General.** Each person in physical possession of a hazardous material at the time that any of the following incidents occurs during transportation (including loading, unloading, and temporary storage) must submit a Hazardous Materials Incident Report on DOT Form F 5800.1 (01-2004) within 30 days of discovery of the incident:
 - (1) Any of the circumstances set forth in § 171.15(b);
 - (2) An unintentional release of a hazardous material or the discharge of any quantity of hazardous waste;

- (3) A specification cargo tank with a capacity of 1,000 gallons or greater containing any hazardous material suffers structural damage to the lading retention system or damage that requires repair to a system intended to protect the lading retention system, even if there is no release of hazardous material; or (4) An undeclared hazardous
- **(b) Providing and retaining copies of the report.** Each person reporting under this section must—

material is discovered.

- (1) Submit a written Hazardous Materials Incident Report to the Information Systems Manager, DHM-63, Research and Special Programs Administration. Department of Transportation, Washington, DC 20590-0001, or an electronic Hazardous Material Incident Report to the Information System Manager, DHM-63, Research and Special Programs Administration, Department of Transportation, Washington, DC 20590-0001 at http://hazmat.dot.gov; (2) For an incident involving transportation by aircraft, submit a written or electronic copy of the Hazardous Materials Incident Report to the FAA Security Field Office nearest the location of the incident: and
- (3) Retain a written or electronic copy of the Hazardous Materials Incident Report for a period of two years at the reporting person's principal place of business. If the written or electronic Hazardous Materials Incident Report is maintained at other than the reporting person's principal place of business, the report must be made available at the reporting person's principal place of business within 24 hours of a request for the report by an authorized representative or special agent of the Department of Transportation.
- **(c) Updating the incident report.** A Hazardous Materials
 Incident Report must be updated within
 one year of the date of occurrence of
 the incident whenever:

- (1) A death results from injury caused by a hazardous material;
- (2) There was a misidentification of the hazardous material or packaging information on a prior incident report;
- (3) Damage, loss or related cost that was not known when the initial incident report was filed becomes known; or
- (4) Damage, loss, or related cost changes by \$25,000 or more, or 10% of the prior total estimate, whichever is greater.
- **(d) Exceptions.** Unless a telephone report is required under the provisions of § 171.15 of this part, the requirements of paragraphs (a), (b), and (c) of this section do not apply to the following incidents:
 - (1) A release of a minimal amount of material from—
 - (i) a vent, for materials for which venting is authorized;
 - (ii) the routine operation of a seal, pump, compressor, or valve: or
 - (iii) connection or disconnection of loading or unloading lines, provided that the release does not result in property damage.
 - (2) An unintentional release of hazardous material when:
 - (i) The material is properly classed as—
 - (A) ORM-D; or
 - (B) a Packing Group III material in Class or Division 3, 4, 5, 6.1, 8, or 9;
 - (ii) Each packaging has a capacity of less than 20 liters (5.2 gallons) for liquids or less than 30 kg (66 pounds) for solids;
 - (iii) The total aggregate release is less than 20 liters (5.2 gallons) for liquids or less than 30 kg (66 pounds) for solids; and
 - (iv) The material is not-
 - (A) offered for transportation or transported by aircraft,
 - (B) a hazardous waste, or
 - (C) an undeclared hazardous material.

(3) An undeclared hazardous material discovered in an air passenger's checked or carry-on baggage during the airport screening process. (For discrepancy reporting by carriers, see § 175.31 of this subchapter.)



Hazardous Materials Incident Report

Form Approval OMB No. 2137-0039

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 2137-0039. The filling out of this information is mandatory and will take 96 minutes to complete.

INSTRUCTIONS: Submit this report to the Information Systems Manager, U.S. Department of Transportation, Research and Special Programs Administration, Office of Hazardous Materials Safety, DHM-63, Washington, D.C. 20590-0001. If space provided for any item is inadequate, use a seperate sheet of paper, identifying the entry number being completed. Copies of this form and instructions can be obtained from the Office of Hazardous Materials Website at http://hazmat.dot.gov. If you have any questions, you can contact the Hazardous Materials Information Center at 1-800-HMR-4922 (1-800-467-4922) or online at http://hazmat.dot.gov.

PART I - REPORT	TYPE								
1. This is to report:			A) A hazardous materia	l incide	ent	B) An une	declared ship	ment w	ith no release
			(1) received structure	C) A specification cargo tank 1,000 gallons or greater containing any hazardous materials that (1) received structural damage to the lading retention system or damage that requires repair to a system intended to protect the lading retention system and (2) did not have a release.					
2. Indicate whether this	is:		An initial report		A supplemental (f	ollow-up) repor	rt		Additional Pages
PART II - GENERA	AL INCIDEN	T IN	FORMATION						
3. Date of Incident:			4. Tim	ne of	ncident (use 24-h	nour time):			
5. Enter National Respo	onse Center Re	port N	umber (if applicable)	:					
6. If you submitted a re	port to anothe	r Fede	ral DOT agency, ente	r the a	agency and repor	t number: _			
7. Location of Incident:	City:		County: _		State:		ZIP Code (if	know	n):
Street Address/Mile	Marker/Yardnaı	me/Air	port/Body of Water/R	iver N	/lile				
8. Mode of Transportat	ion		Air		Highway	☐ Rail			Water
9. Transportation Phas	е		In Transit		Loading	☐ Unloadir	ng		In Transit Storage
10. Carrier/Reporter	Name								
	Street								
	Federal DOT II	O Num	ber		Hazmat	Registration N	Number _		
11. Shipper/Offeror	Name								
	Waybill/Shipp	ing Pa	aper		Hazmat	Registration N	Number _		
12. Origin	Street								
(if different from shipper address)	City					_ State	ZIP (Code _	
13. Destination	Street								
	City					State	ZIP (Code _	
14. Proper Shipping Nar	ne of Hazardous	Mate	rial:						
15. Technical/Trade Nar	ne:								
16. Hazardous Class/ Division:		Numbe			18. Packing Group: (if applicable)			leased	
20. Was the material shipped as a hazardous waste?									
·			_		,				lo.
22. Was the material shipped under an Exemption, Approval, or Competent Authority Certificate? Yes No If yes, provide the Exemption, Approval, or CA number:									
23. Was this an undecla							☐ Yes		10
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PART III - PACKAGING II	NFORMATION		
24. Check Packaging Type (check	only one - if more than	one, list type of packaging, copy Part III,	and complete for each type:
☐ Non-bulk	□ ІВС	☐ Cargo tank Motor Vehicle (CTM)	/) Tank Car
☐ Cylinder	☐ RAM	☐ Portable Tank	☐ Other
that corresponds to the partic	ular packaging type che	s found at the end of the instructions. Be cked above. Enter the number of codes as e are more than two failure points, provid	s appropriate to describe the incident.
1. What Failed:	How F	ailed: Cause	s of Failure:
2. What Failed:		ailed: Cause	s of Failure:
26a. Provide the packaging identifi	cation markings, if avai	lable.	
Identification Markings:			
(Examples: 1A1/Y1.4/150/92/USA/	RB/93/RL, UN31H1/Y0493/U	JSA/M9339/10800/1200, DOT - 105A - 100W (R/	AIL), DOT 406 (HIGHWAY), DOT 51, DOT 3-A)
26b. For Non-bulk, IBC, or non-specomplete the following:	ecification packaging, if	identification markings are incomplete or u	unavailable, see instructions and
Single Package or Outer Pack	aging:	Single Package or I	nner Packaging (if any):
Packaging Type:		Packaging Type: _	
Material of Construction:		Material of Construc	ction:
Head Type (Drums only):	☐ Removable	☐ Non - Removable	
27. Describe the package capacity	and the quantity:		
Single Package or Outer Pack	aging:	Single Package or In	nner Packaging (if any):
Package Capacity:		Package Capacity:	
Amount in Package:		Amount in Package	:
Number in Shipment:			t:
Number Failed:			
28. Provide packaging construction	n and test information, a	as appropriate:	
Manufacturer:		Manufacture Date:	
Serial Number:		Last Test Date:	
Material of Construction:		(if Tank Car, CTMV, Portable Tank,	or Cylinder)
Design Pressure:		(if Tank Car, CTMV, Portable Tank	
Shell Thickness:		(if Tank Car, CTMV, Portable Tank	
Head Thickness:		(if Tank Car, CTMV)	
Service Pressure:		(if Cylinder)	
If valve or device failed:			
Type:	Manufacturer		/lodel:
29.If the packaging is for Radioac	tive Materials, complete	(if present and legible) the following:	(if present and legible)
Packaging Category:	☐ Type A	☐ Type B ☐ Type C ☐	Excepted
Packaging Certification:	☐ Self Certified	U.S. Certification Certification	ation Number
Nuclide(s) Present:		Transport Index:	
Activity:		Critical Safety Index:	
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PART IV - CONSEQUENCES				
30. Result of Incident (check all that apply):	Spillage	Explosion	■ Mate	rial Entered Waterway/Storm Sewer
	apor (Gas) Dispersion	Environmenta	ıl Damage	☐ No Release
31.Emergency Response : The following entities	responded to the incident:	(Check all	that apply)	
☐ Fire/EMS Report #	☐ Police Report #		_ 🗆 In-	house cleanup
32. Damages: Was the total damage co	ost more than \$500?	☐ Yes	□ No	
If yes, enter the following information: If n	o, go to question 33.			
Material Loss: Carrier Damage:	Property Damage:	Respo	nse Cost:	Remediation/Cleanup Cost:
\$ \$	\$	\$		\$
(See damage definitions in the instructions)		_	_	
33a. Did the hazardous material cause or contribute	to a human fatality?	☐ Yes	□ No	
If yes, enter the number of fatalities resulting f				
Fatalities: Employ	ees Re	sponders		General Public
33b. Were there human fatalities that did not result	from the hazardous materi	al? 🔲 Yes	□ No	If yes, how many?
34. Did the hazardous material cause or contribute	to personal injury?	☐ Yes	□ No	
If yes, enter the number of injuries resulting fro	m the hazardous material:			
Hospitalized (Admitted Only): Employ	ees Re	sponders		General Public
Non-Hospitalized: Employe	ees Re	sponders		General Public
(e.g.: On site frst aid or Emergency Room observation	and release)			
35. Did the hazardous material cause or contribute	to an evacuation?	☐ Yes	☐ No	
If yes, provide the following information:				
Total number of general public evacuated	Total number of e	mployees evad	uated	Total Evacuated
Duration of the evacuation (hours)			
36. Was a major transportation artery or facility clo	sed?	☐ Yes	□ No	If yes, how many? (hours)
37. Was the material involved in a crash or derailme	ent?	☐ Yes	□ No	
If yes, provide the following information:	Estimated speed (mph):	Wea	ther condit	ions:
	Vehicle overturn?	☐ Yes	□ No	
	Vehicle left roadway/track?	Yes	□ No	
PART V - AIR INCIDENT INFORMATI	ON (please refer to § 1	75.31 to repo	ort a discre	epancy for air shipments)
38. Was the shipment on a passenger aircraft?		☐ Yes	□ No	
If yes, was it tendered as cargo, or as passeng	er baggage?	– 103	_ 110	
Cargo	☐ Passenger baggage			
39. Where did the incident occur (if unknown, chec		o location wh	aro the inci	dont was discovered\?
		ie location win		
☐ Air carrier cargo facility	☐ Sort center		☐ Bagga	
☐ By surface to/from airport	☐ During flight			g loading/unloading of aircraft
40. What phase(s) had the shipment already underg	_		_	
☐ Shipment had not been transported	☐ Transported by air (fir	st flight)	☐ Trans	port by air (subsequent flights)
☐ Initial transport by highway to cargo facility	☐ Transfer at sort cente	r/cargo facility		
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PART VI - DESCRIPTION OF EVENTS & F	PACKAGE FAILURE	
Describe the sequence of events that led to the incider including the size and location of holes, cracks, etc. Ph the duration of the release, if possible. Describe what we necessary.	otographs and diagrams shoul	d be submitted if needed for clarif cation. Estimate
PART VII - RECOMMENDATIONS/ACTIO	NS TAKEN TO PREVEN	T RECURRENCE
Where you are able to do so, suggest or describe chan procedures) to help prevent recurrence. Provide recom		
control of your individual company. Continue on addit		
PART VIII- CONTACT INFORMATION		
Contact's Name (Type or Print):	Telephone Nun	nber: <u>(</u>)
Contact's Title:	Fax Number: ()
Business Name and Address:	Hazmat Regist	ration Number (if not already provided):
E-mail Address:		
Preparer is:		
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